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OM protein - protein search, using sw model

Run on: October 26, 2004, 16:39:52 ; Search time 129 Seconds

(without alignments)
1350.249 Million cell updates/sec

Title: US-09-271-584A-2

Perfect score: 2755

Sequence: 1 MLDLSVSKLPSTSDHASV.....FVPFVPGSPTRNPPDL SKA 538

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1364641 seqs, 323758627 residues

Total number of hits satisfying chosen parameters: 1364641

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

- 1: /cgn2_6/prodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/prodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/prodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/prodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/prodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/prodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/prodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/prodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/prodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/prodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/prodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/prodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/prodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/prodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/prodata/2/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/prodata/2/pubpaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/prodata/2/pubpaa/US11_NEW_PUB.pep.*
- 19: /cgn2_6/prodata/2/pubpaa/US60_NEW_PUB.pep.*
- 20: /cgn2_6/prodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
1	2755	100.0	538	US-09-834-998A-1	Sequence 1, Appli
2	2444	88.7	546	US-10-155-535-2	Sequence 2, Appli
3	2130.5	77.3	540	US-10-425-114-55826	Sequence 5826, A
4	2112.5	76.7	546	US-10-424-599-201549	Sequence 201549, A
5	1910.5	69.3	552	US-10-155-535-4	Sequence 4, Appli
6	1886	68.5	546	US-10-409-701-23	Sequence 195062,
7	1756	63.7	525	US-10-437-963-195062	Sequence 149178,
8	1440.5	52.3	631	US-10-437-963-149178	Sequence 48759, A
9	1286.5	46.7	338	US-10-425-114-48759	Sequence 72854, A
10	836	30.3	236	US-10-425-114-72854	Sequence 5, Appli
11	608	22.1	671	US-10-415-378-5	Sequence 7, Appli
12	604	21.9	673	US-10-297-022-7	Sequence 134, App
13	595.5	21.6	588	US-10-262-511-134	

14	593.5	21.5	725	15	US-10-072-012-654	Sequence 654, App
15	590	21.4	641	15	US-10-072-012-246	Sequence 246, App
16	582	21.1	608	10	US-09-991-936-1868	Sequence 1868, Ap
17	581	21.1	666	15	US-10-072-012-656	Sequence 656, App
18	581	21.1	669	9	US-09-834-998A-2	Sequence 2, Appli
19	581	21.1	669	15	US-10-072-012-657	Sequence 657, App
20	581	21.1	669	17	US-10-757-262-88	Sequence 88, Appl
21	581	21.1	669	17	US-10-768-158-40	Sequence 40, Appl
22	576.5	20.9	616	15	US-10-072-012-655	Sequence 655, App
23	575.5	20.9	631	15	US-10-332-447-13	Sequence 2, Appli
24	575.5	20.9	645	14	US-10-217-096-2	Sequence 3, Appli
25	575.5	20.9	645	14	US-10-060-998-3	Sequence 23, Appl
26	575.5	20.9	645	17	US-10-699-156-23	Sequence 49822, A
27	570	20.7	140	16	US-10-767-701-49822	Sequence 180, App
28	565	20.5	526	9	US-09-800-729-180	Sequence 3, Appli
29	564	20.5	633	9	US-09-834-998A-3	Sequence 93, Appli
30	563	20.4	509	9	US-09-800-729-93	Sequence 2187, Ap
31	563	20.4	509	11	US-09-833-245-2187	Sequence 64153, A
32	554.5	20.1	628	15	US-10-425-114-64153	Sequence 7, Appli
33	547	19.9	493	14	US-10-155-535-6	Sequence 6, Appli
34	543	19.7	521	14	US-10-217-096-4	Sequence 4, Appli
35	531.5	19.3	446	14	US-10-072-012-865	Sequence 865, App
36	498	18.1	400	15	US-10-138-588-52	Sequence 52, Appl
37	480.5	17.4	669	15	US-10-767-701-53921	Sequence 53921, A
38	479	17.4	171	16	US-10-217-096-6	Sequence 6, Appli
39	466.5	16.9	896	14	US-10-408-765A-620	Sequence 620, App
40	466.5	16.9	896	16	US-10-757-262-114	Sequence 114, App
41	466.5	16.9	896	17	US-10-768-158-36	Sequence 36, Appl
42	466.5	16.9	896	17	US-10-767-701-33859	Sequence 33859, A
43	463	16.8	132	16	US-10-424-599-201550	Sequence 201550,
44	457	16.6	149	15	US-10-072-012-508	Sequence 508, App
45	455.5	16.5	813	15		

ALIGNMENTS

RESULT 1

US-09-834-998A-1
; Sequence 1, Application US/09834998A
; Patent NO. US20020178464A1
; GENERAL INFORMATION:
; APPLICANT: Gaxiola, Roberto A.
; APPLICANT: Fink, Gerald R.
; APPLICANT: Alper, Seth L.
; TITLE OF INVENTION: Proton Transporters And Uses In Plants
; FILE REFERENCE: 0399.2004-002
; CURRENT APPLICATION NUMBER: US/09/834,998A
; CURRENT FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: US 09/644,039
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 60/164,808
; PRIOR FILING DATE: 1999-11-10
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 538
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Arabidopsis - AtNhx1
US-09-834-998A-1

Query Match 100.0%; Score 2755; DB 9; Length 538;
Best Local Similarity 100.0%; Pred. No. 2.5e-249;
Matches 538; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLDLSVSKLPSTSDHASVVALNFVALLCACIVLGHLEENRWNESITALLIGLGTG 60
Db 1 MLDLSVSKLPSTSDHASVVALNFVALLCACIVLGHLEENRWNESITALLIGLGTG 60
QY 61 VTILLISKGKSHLLVPSFDLFFVLLPPIFNAGFOVKKOFFNFVTIMLFGAVGTII 120

Db 61 VTILLISGKSSHLVSEDLFFIYLLPPIIFNAGFOVKKQFRNFVTIMLFGAVGTII 120
 QY 121 SCTIISIGVTOFFPKKLDIGTDFLDGYLAIGAIFAATDSVCTQLVQLNDETPLLYSLVFGE 180
 Db 121 SCTIISIGVTOFFPKKLDIGTDFLDGYLAIGAIFAATDSVCTQLVQLNDETPLLYSLVFGE 180
 QY 181 GVNDAATSVVVFNAIOSFDLTHLNHEAAPHLLGNFLYLLSTLLGAATGLISAYVIKKL 240
 Db 181 GVNDAATSVVVFNAIOSFDLTHLNHEAAPHLLGNFLYLLSTLLGAATGLISAYVIKKL 240
 QY 241 YFORHSTDRVALMMLMAYLSYMLAEFLDLSGLITVFFCGIVMSHYTHWNVTESSRIITTK 300
 Db 241 YFORHSTDRVALMMLMAYLSYMLAEFLDLSGLITVFFCGIVMSHYTHWNVTESSRIITTK 300
 QY 301 HTPATLSFLAETFIYVGMALDIDKWRVSVDTPGTSIAVSSILMGLVMVGRAAAFVFPPL 360
 Db 301 HTPATLSFLAETFIYVGMALDIDKWRVSVDTPGTSIAVSSILMGLVMVGRAAAFVFPPL 360
 QY 361 SFSLNLAQKQSEKINFNQVVIWWSGLMRGAVSMALAYNKFTFRAGHTDVRGNAMITST 420
 Db 361 SFSLNLAQKQSEKINFNQVVIWWSGLMRGAVSMALAYNKFTFRAGHTDVRGNAMITST 420
 QY 421 INVCLFSTVFGMLTKPLISYLLPHQNA--TTSMLSDNTPKSIHIPLLDQDSFIEPSGNHN 480
 Db 421 INVCLFSTVFGMLTKPLISYLLPHQNA--TTSMLSDNTPKSIHIPLLDQDSFIEPSGNHN 480
 QY 481 VPRPDSIRGLTRPTRTVHYWROFDDSPMRPVFGRGVFPVPGSPTRNPPDLska 538
 Db 481 VPRPDSIRGLTRPTRTVHYWROFDDSPMRPVFGRGVFPVPGSPTRNPPDLska 538

RESULT 2

US-10-155-535-2
 ; Sequence 2, Application US/10155535
 ; Publication No. US20030046729A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Blumwald, Eduardo
 ; APPLICANT: Apse, Maris
 ; TITLE OF INVENTION: INCREASING SALT TOLERANCE IN PLANTS BY
 ; EXPRESSION OF VACUOLAR CATION-PROTON ANTI-PORTERS
 ; FILE REFERENCE: 529152000720
 ; CURRENT APPLICATION NUMBER: US/10/155,535
 ; CURRENT FILING DATE: 2002-05-24
 ; PRIOR APPLICATION NUMBER: 09/271,584
 ; PRIOR FILING DATE: 1999-03-18
 ; PRIOR APPLICATION NUMBER: 60/078,474
 ; PRIOR FILING DATE: 1998-03-18
 ; PRIOR APPLICATION NUMBER: 60/116,111
 ; NUMBER OF SEQ ID NOS: 27
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2
 ; LENGTH: 546
 ; TYPE: PRT
 ; ORGANISM: Arabidopsis thaliana
 ; OTHER INFORMATION: Clone ID: LIB3242-431-A12_FLI.pep
 ; US-10-155-535-2

Query Match 88.7%; Score 2444; DB 14; Length 546;
 Best Local Similarity 87.7%; Pred. No. 3.8e-220;
 Matches 476; Conservative 31; Mismatches 30; Indels 6; Gaps 2;
 QY 1 MLPDLVSKLPSLSTSDHASVVALNLFVALLCACIVLGHLEENRWNNESITALLIGLGTG 60
 Db 3 MEASLTKMLSVSTSDHASVVALNLFVALLCACIVLGHLEENRWNNESITALLIGLGTG 62
 QY 61 VTILLISGKSSHLVSEDLFFIYLLPPIIFNAGFOVKKQFRNFVTIMLFGAVGTII 120
 Db 63 VILLISRGKNSHLVSEDLFFIYLLPPIIFNAGFOVKKQFRNFVTIMLFGAVGTIV 122
 QY 121 SCTIISIGVTOFFPKKLDIGTDFLDGYLAIGAIFAATDSVCTQLVQLNDETPLLYSLVFGE 180
 Db 123 SCTIISIGVTOFFPKKLDIGTDFLDGYLAIGAIFAATDSVCTQLVQLNDETPLLYSLVFGE 182

QY 181 GVNDAATSVVVFNAIOSFDLTHLNHEAAPHLLGNFLYLLSTLLGAATGLISAYVIKKL 240
 Db 183 GVNDAATSVVVFNAIOSFDLTHLNHEAAPHLLGNFLYLLSTLLGAATGLISAYVIKKL 242
 QY 241 YFORHSTDRVALMMLMAYLSYMLAEFLDLSGLITVFFCGIVMSHYTHWNVTESSRIITTK 300
 Db 243 YFORHSTDRVALMMLMAYLSYMLAEFLDLSGLITVFFCGIVMSHYTHWNVTESSRIITTK 302
 QY 301 HTPATLSFLAETFIYVGMALDIDKWRVSVDTPGTSIAVSSILMGLVMVGRAAAFVFPPL 360
 Db 303 HTPATLSFLAETFIYVGMALDIDKWRVSVDTPGTSIAVSSILMGLVMVGRAAAFVFPPL 362
 QY 361 SFSLNLAQKQSEKINFNQVVIWWSGLMRGAVSMALAYNKFTFRAGHTDVRGNAMITST 420
 Db 363 SFSLNLAQKQSEKISIKQVVIWWSGLMRGAVSMALAYNKFTFRAGHTDVRGNAMITST 422
 QY 421 INVCLFSTVFGMLTKPLISYLLPHQNA--TTSMLSDNTPKSIHIPLLDQDSFIE 474
 Db 423 INVCLFSTVFGMLTKPLISYLLPHQNA--TTSMLSDNTPKSIHIPLLDQDSFIE 482
 QY 475 PSNHNVPDPDSIRGLTRPTRTVHYWROFDDSPMRPVFGRGVFPVPGSPTRNPPD 534
 Db 483 PSNHNVPDPDSIRGLTRPTRTVHYWROFDDSPMRPVFGRGVFPVPGSPTRNPPD 542
 QY 535 LSK 537
 Db 543 LSK 545

RESULT 3

US-10-425-114-55826
 ; Sequence 55826, Application US/10425114
 ; Publication No. US20040034888A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Jingdong
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Kovalic, David K.
 ; APPLICANT: Screen, Steven E.
 ; APPLICANT: Tabaska, Jack E.
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 ; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 ; FILE REFERENCE: 38-21(53313)B
 ; CURRENT APPLICATION NUMBER: US/10/425,114
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 73128
 ; SEQ ID NO 55826
 ; LENGTH: 540
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: LIB3242-431-A12_FLI.pep
 ; US-10-425-114-55826

Query Match 77.3%; Score 2130.5; DB 15; Length 540;
 Best Local Similarity 77.1%; Pred. No. 9.3e-191;
 Matches 413; Conservative 59; Mismatches 55; Indels 9; Gaps 4;
 QY 4 SLVSKLPSLSTSDHASVVALNLFVALLCACIVLGHLEENRWNNESITALLIGLGTG 63
 Db 1 SVVSKLQTLSTSDHASVVALNLFVALLCACIVLGHLEENRWNNESITALLIGLGTG 60
 QY 64 LLSKSKSSHLVSEDLFFIYLLPPIIFNAGFOVKKQFRNFVTIMLFGAVGTIISCT 123
 Db 61 LLSKSKSSHLVSEDLFFIYLLPPIIFNAGFOVKKQFRNFVTIMLFGAVGTIISCT 120
 QY 124 ITSIGVTOFFPKKLDIGTDFLDGYLAIGAIFAATDSVCTQLVQLNDETPLLYSLVFGE 183
 Db 121 ITSIGVTOFFPKKLDIGTDFLDGYLAIGAIFAATDSVCTQLVQLNDETPLLYSLVFGE 180
 QY 184 NDATSVVVFNAIOSFDLTHLNHEAAPHLLGNFLYLLSTLLGAATGLISAYVIKKL 243
 Db 181 NDATSVVVFNAIOSFDLTHLNHEAAPHLLGNFLYLLSTLLGAATGLISAYVIKKL 240

Db 425 TVVLFSTVVGGLLTCKLVKHLQPSKQSSSTTALQITLRSSFDHPILHEPILLSQGSQSEYD 484
QY 477 GNHNVPDPDSIRGFLRPTRTVHYWRQDSDMRPVFGGRGVFPVPGSPTRNPPDLS 536
Db 485 PEQHV-----SFRFWKSPGRAIHVYWRKFDNAVYMRIFGGRGVSPVPGSPIENSPQWS 540
QY 537 K 537
Db 541 E 541
RESULT 6
US-10-409-701-23
; Sequence 23, Application US/10409701
; Publication No. US20030221224A1
; GENERAL INFORMATION:
; APPLICANT: Zinselmeier, Chris
; APPLICANT: Helentjaris, Timothy G.
; TITLE OF INVENTION: Enhanced Silk Exsersion Under Stress
; FILE REFERENCE: 1421
; CURRENT APPLICATION NUMBER: US/10/409,701
; CURRENT FILING DATE: 2003-04-08
; PRIOR APPLICATION NUMBER: US 60/370,796
; FILING FILING DATE: 2002-04-08
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 546
; TYPE: PRT
; ORGANISM: Zea mays
US-10-409-701-23

Query Match 68.5%; Score 1886; DB 14; Length 546;
Best Local Similarity 68.6%; Pred. No. 9e-168;
Matches 363; Conservative 76; Mismatches 84; Indels 6; Gaps 3;
*QY 8 KLPISLSTSDHASVVALNLFVALLCACIVLGHLEENRWNESITALLIGLGTGVTLLIS 67
Db 10 KSGGLSVSDHDAIVSINIFALLCSCIVIGHLEENRWNESITALLVGLTGGVILLVT 69
QY 68 KGKSHLLVFSDELFYLLPPIIFNAGQVKKQFFRNFTVIMLFGAVGTIIS 127
Db 70 NGTNSRLVLFVSEDLFFYLLPPIIFNAGQVKKQFFRNFTIILFGAIGTLISFVILS 129
QY 128 GVTQFFKKLDIGTDLGDLAIGALFAATSDVCTLOVNLQDETPLLVSIVFGGVNDAT 187
Db 130 GAMGLFKLLVGPULGDLAIGALFAATSDVCTLOVNLQDETPLLVSIVFGGVNDAT 189
QY 188 SVVVFNAIQSFDLPHLNEHAAPHLNGLFYLLSTLGAATGLISAVVIKKLYFGRHST 247
Db 190 SVVLFNAIENLDIDNFDALVILNFGKFLYLLFTSTILGVATGLISAVIKKLCFARHST 249
QY 248 DREVALMMLMAYLSYMLAELFDLSGILTVFFCGIVMSHYTHWNTVTESSRITTKHTFATLS 307
Db 250 DREVSIMLMAYLSYMSMLDLSGILTVFFCGIVMSHYTHWNTVTESSRITTKHTFATLS 309
QY 308 FLAETFFLVGMDALDIDKWRVSVDTPGTSIAVSSILMGLVMVGRAAFPVPLSFLNLA 367
Db 310 FIAEIFLVGMDALDIEKWLKASSPKPIALSATILGLVMVGRAAFPVPLSFLNLS 369
QY 368 KKNQSEKINFNMQVVIWWSGLMRGAVSMALAYNKFTRAGHTDVRGNAIMITSTITVCLFS 427
Db 370 KKEARPKISFKQVVIWWSGLMRGAVSMALAYNKFTRAGHTDVRGNAIMITSTIVVLF 429
QY 428 TVVFGMLTKPLISYLLPHQNA--TTMSLSDNTPKSIHPIILDQDSFIEPSGNHNVRPD 485
Db 430 TMVFGMLTKPLISYLLPHQNA--TTMSLSDNTPKSIHPIILDQDSFIEPSGNHNVRPD 485
QY 486 SIRGFLTRPTRTVHYWRQDSDMRPVFGGRGVFPVPGSPTRNPPD 534
Db 486 NLQFILTAPARSVHRLWRKFDNRFPVFGGRGVFPVPGSPTRNPPD 534

RESULT 8

RESULT 7
US-10-437-963-195062
; Sequence 195062, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 195062
; LENGTH: 525
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(525)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_91047C.1.pap
US-10-437-963-195062

Query Match 63.7%; Score 1756; DB 16; Length 525;
Best Local Similarity 66.7%; Pred. No. 1.2e-155;
Matches 355; Conservative 64; Mismatches 85; Indels 28; Gaps 5;
QY 2 LDSLVSKLPISLSTSDHASVVALNLFVALLCACIVLGHLEENRWNESITALLIGLGTGV 61
Db 5 LGALVLKSGGLSVSDHDAIVSINIFALLCSCIVIGHLEENRWNESITALLVGLTGG 64
QY 62 TILLISKGKSHLLVFSDELFYLLPPIIFNAGQVKKQFFRNFTVIMLFGAVGTIIS 121
Db 65 VILLVSGGKSHLLVFSDELFYLLPPIIFNAGQVKKQFFRNFTIILFGAVGTIIS 124
QY 122 CTIISLGVTPQFKKLDIGTDLGDLAIGALFAATSDVCTLOVNLQDETPLLVSIVFGEG 181
Db 125 FVIIS-----LAIGAIFSATSDVCTLOVNLQDETPLLVSIVFGEG 164
QY 182 VVNDATSVVVFNAIQSFDLPHLNEHAAPHLNGLFYLLSTLGAATGLISAVVIKKLY 241
Db 165 VVNDATSVVLFNAIEDIDNFDALVILNFGKFLYLLFTSTILGVATGLISAVIKKLC 224
QY 242 FGRHSTDREVALMMLMAYLSYMLAELFDLSGILTVFFCGIVMSHYTHWNTVTESSRITTKH 301
Db 225 FARHSTDREVALMMLMAYLSYMLAELFDLSGILTVFFCGIVMSHYTHWNTVTESSRITTKH 284
QY 302 TFATLSFLAETFFLVGMDALDIDKWRVSVDTPGTSIAVSSILMGLVMVGRAAFPVPLS 361
Db 285 TFATLSFLAETFFLVGMDALDIEKWLKASSPKPIALSATILGLVMVGRAAFPVPLS 344
QY 362 FLNLAKKQSEKINFNMQVVIWWSGLMRGAVSMALAYNKFTRAGHTDVRGNAIMITSTI 421
Db 345 FLNLSKKETRPKISFKQVVIWWSGLMRGAVSMALAYNKFTRAGHTDVRGNAIMITSTI 404
QY 422 TVCLFST-VVFGMLTKPLISYLLPHQNA--TTMSLSDNTPKSIHPIILDQDSFIEPSGNHN 480
Db 405 IVVLFXTSVFVGGTTPKLNLLIPRPDIAADUSS-----QSIIDPLL--GSLIGSDPDVG 458
QY 481 VPRP-DSIRGFLTRPTRTVHYWRQDSDMRPVFGGRGVFPVPGSPTRNPPD 531
Db 459 QPSQNNLQILLTIQTRSVHRVWRKFDNRFPVFGGRGVFPVPGSPTRNPPD 510

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US-10-437-963-149178
; Sequence 149178, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 149178
; LENGTH: 631
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_49537C.1.pep
US-10-437-963-149178

Query Match          52.3%; Score 1440.5; DB 16; Length 631;
Best Local Similarity 56.2%; Pred. No. 5.9e-126;
Matches 300; Conservative 64; Mismatches 121; Indels 49; Gaps 7;

QY 19 SVVNLNLFVALLCACVGLHLLNENWMBESITALLIGLGTGVTILLISKSKSHLLVFS 78
Db 24 TVVSCVFTAVLCVAVGLHLLNENWMBESITALLIGCVGAIIFLLSEKNSRIILRFD 83
QY 79 EOLFFYLLPPIIFNAGFQVKKQFFRNFTVIMLFGAVGTIISCTIISLGVTQFFKKLDI 138
Db 84 EQLFYVLPPIIFNAGFQVKKQFFHNFELTMSFGIFGVFISVAIVSTGCYMLFPKGVF 143
QY 139 GTFDLGDYL-----AICAIFAADTSVCTIQVNOQDETPLYLSLVFEGGVNDATSVV 190
Db 144 GDUGAVDYLDLILFTTTALGAIFSSDTVCTQVISOQDETPRYSLSLVFEGGVNDATSVV 203
QY 191 VNAIQSFDLTHLNHEAAFLHGNFLYLFLSLTLLGAATGLISAYVLKLYFGRHSTDR 250
Db 204 LFNAIKNLDITQKGGVALKVISDFLLFTSTMLGTIGLSTAYALKALYFGHSTDR 263
QY 251 VALMMLMAYLSYMLAEFLDLSGLITVFCGIVMSHYTWNVHNTSSRTITTKHTFATLSFLA 310
Db 264 VALMALMAYLSYMLAEFLDLSGLILMVFFCGIVMSHYAWHNVHNTSSRTITRHFATLSFIA 323
QY 311 ETFILYVGMADLIDKWSVSDTPGTISIAVSSILMGLVMVGRAAFVPLSFLSN-LAKK 369
Db 324 ETEFLYVGMADLIDKWKTSFSTFKTSLGIFGIIISLVLLGRAAFVPLSIMSNYMSG 383
QY 370 NQSEKINFMQVVIWVSGLMRGAVSMALAYNKFTRAGHTDVRGNAMITSTITVCLFSTV 429
Db 384 SEXAPIITNIO-----FTFSGVLDPPVHATITSIIVVFTTL 422
QY 430 VFGMLTKPLISYLLPHQN--ATT-----SMLSDNTPKSHI-PLLDQSFIEPSGNHN 480
Db 423 VFGFLTRPLISAILPHQRQSTTPTGTGGGSRSTGNSGPKDDFIMPFLSPDEASGSGGF 482
QY 481 VPRPDSIRGFTTRPTRTVHYTWROFDDSFMPFVGGRGFVFPVGSPTERRPPD 534
Db 483 LQAKRSISMLLRPVHTVHYWYRKFDPRMRFPG-----PMERDRGD 526

RESULT 9
US-10-425-114-48759
; Sequence 48759, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
```

```
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 48759
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3356-014-CL_FLI.pep
US-10-425-114-48759
```

```
Query Match          46.7%; Score 1286.5; DB 15; Length 338;
Best Local Similarity 73.0%; Pred. No. 6.9e-112;
Matches 249; Conservative 41; Mismatches 46; Indels 5; Gaps 3;

QY 176 LVFGEVNDATSVVFNAIQSFDLTHLNHEAAFLHGNFLYLFLSLTLLGAATGLISAY 235
Db 1 LVFGEVNDATSVVLFNALQNFDLNHDVAVVNLGNFCYLFVSSITLLGVFTGLISAY 60
QY 236 VIKKLYFGHSTDRVALMMLMAYLSYMLAEFLDLSGLITVFCGIVMSHYTWNVHNTSS 295
Db 61 IIKLYIGHSTDRVALMMLMAYLSYMLAEFLDLSGLITVFCGIVMSHYTWNVHNTSS 120
QY 296 RITTKHTPATLSFLAETFTFLYVGMADLIDKWSVSDTPGTISIAVSSILMGLVMVGRA 355
Db 121 RVTTKHAFTLSFLAETFTFLYVGMADLIDKWEFASDSPGKSGISILLGLVVGRA 180
QY 356 FVPLSFLSNLAKKQSEKINFMQVVIWVSGLMRGAVSMALAYNKFTRAGHTDVRGNAI 415
Db 181 FVPLSFLSNLTKKSPLEKITFRQQIVIWAGLMRGAVSIALAYNKFTRSGHTELHGNAI 240
QY 416 MITSTITVCLFSTVFGMLTKPLISYLLPHQNATTSMLSDNTPKSHIPLLD--QDSFI 473
Db 241 MITSTITVCLFSTVFGMLTKPLIRLLPACSNAT--SEPPSPKSLHSLTSMQSDI 298
QY 474 EPSGNHNPDPDSIRGFTTRPTRTVHYTWROFDDSFMPFV 514
Db 299 E-TGSAQIVRPSSILRLSKPHTVHYWYRKFDALMRPMF 338
```

```
RESULT 10
US-10-425-114-72854
; Sequence 72854, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 72854
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-OSFLM202093A02_FLI.pep
US-10-425-114-72854
```

Query Match 30.3%; Score 836; DB 15; Length 236;
 Best Local Similarity 67.9%; Pred. No. 7.4e-70;
 Matches 159; Conservative 29; Mismatches 44; Indels 2; Gaps 1;

QY 298 TTXHTFATLSFLAETFLFYVGMALDIDKWRVSVDTPGTSIAVSSILGMLVWVGRAAFV 357
 Db 1 TTXHTFATLSFLAETFLFYVGMALDIDKWRVSVDTPGTSIAVSSILGMLVWVGRAAFV 60

QY 358 FPLSFLSNLAKNQSEKINFNQVWISGLMRGAVSMALAYNKFTRAGHTDVRGNAIMI 417
 Db 61 FPLSFLSNLAKNQSEKINFNQVWISGLMRGAVSMALAYNKFTRAGHTDVRGNAIMI 120

QY 418 TSTITVCLSTVVRGMLTPLISYLPHQNAATSMISDNTPKSIHPIILDQDSFTPEPSG 477
 Db 121 TSTITVCLSTVVRGMLTPLISYLPHQNAATSMISDNTPKSIHPIILDQDSFTPEPSG 178

QY 478 NNNVRPDSIRGFLTRPTRTVHYVWRQFDDSPMRPVFGGRGFPVPVPGSGPTERN 531
 Db 179 TTNIVRPSLRMLTKPTHTVHYVWRQFDDSPMRPVFGGRGFPVPVPGSGPTERN 532

RESULT 11
 US-10-415-378-5
 ; Sequence 5, Application US/10415378
 ; Publication No. US20040014945A1
 ; GENERAL INFORMATION:
 ; APPLICANT: INCYTE CORPORATION; TANG, Y. Tom
 ; APPLICANT: YUE, Henry; NGUYEN, Damiel B.;
 ; APPLICANT: HAFALIA, Farrah A.; ELLIOTT, Vicki S.;
 ; APPLICANT: LU, Yan; CHAWLA, Narinder K.;
 ; APPLICANT: YAO, Monique G.; BAUGHN, Mariah R.;
 ; APPLICANT: GANDHI, Ameena R.; DING, Li;
 ; APPLICANT: SANJANWALA, Madhusudan M.; RAMKUMAR, Jayalaxmi;
 ; APPLICANT: ARVIZU, Chandra S.; GIETZEN, Kimberly J.;
 ; APPLICANT: KHAN, Farrah A.; THANGAVELU, Kavitha;
 ; APPLICANT: THORNTON, Michael B.; LU, Dyrung Aina M.;
 ; APPLICANT: TRIBOULEY, Catherine M.; WARREN, Bridget A.;
 ; APPLICANT: ISON, H. Craig; DAS, Debopriya;
 ; APPLICANT: RAUMANN, Brigitte E.; POLICKY, Jennifer L.;
 ; APPLICANT: KEARNEY, Liam
 ; TITLE OF INVENTION: TRANSPORTERS AND ION CHANNELS
 ; FILE REFERENCE: PI-0270 USN
 ; CURRENT APPLICATION NUMBER: US/10/415,378
 ; CURRENT FILING DATE: 2003-05-07
 ; PRIOR APPLICATION NUMBER: PCT/US01/46055
 ; PRIOR FILING DATE: 2001-10-27
 ; PRIOR APPLICATION NUMBER: US 60/250,790
 ; PRIOR FILING DATE: 2000-12-01
 ; PRIOR APPLICATION NUMBER: US 60/252,232
 ; PRIOR FILING DATE: 2000-11-20
 ; PRIOR APPLICATION NUMBER: US 60/249,661
 ; PRIOR FILING DATE: 2000-11-17
 ; PRIOR APPLICATION NUMBER: US 60/247,673
 ; PRIOR FILING DATE: 2000-11-09
 ; PRIOR APPLICATION NUMBER: US 60/245,904
 ; PRIOR FILING DATE: 2000-11-03
 ; PRIOR APPLICATION NUMBER: US 60/243,989
 ; PRIOR FILING DATE: 2000-10-27
 ; NUMBER OF SEQ ID NOS: 40
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 5
 ; LENGTH: 671
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; OTHER INFORMATION: Incyte ID No. US20040014945A1 7476938CD1
 ; US-10-415-378-5

Query Match 22.1%; Score 608; DB 15; Length 671;
 Best Local Similarity 32.3%; Pred. No. 7.5e-48;
 Matches 171; Conservative 98; Mismatches 191; Indels 70; Gaps 21;

QY 16 DRASVVALNLFVALLCACIVGLHLEENR--WMNESITALLIGLGTGVTILLISKGKSSH 73
 Db 145 EQSSGNTIFFSLVLAICILVHLLRYRHLFPESVAVVUSILMGAVIKIIEFKKLAN 204

QY 74 LL---VSEDLFFIYLLPPIIFNAGFQVKKQFRRNFVTIMLFGAVGTIISIGLVT 130
 Db 205 WKEEEMFRNMPFLLLPPIIPESGYSLHKGNFQNGISITLFAVFGTASAFVVGGI- 263

QY 131 QPFKLD-IGTDFLDGYLAIGAIFATDSVCTILOVNO--DETPLLISLVFGEVGVNDATS 188
 Db 264 YELGQADVLSKLNMTDSFAFGLSISAVDFVATIAIFNALHVDVFLNMLVFGESILNDVS 323

QY 189 VVVFNAIQSFDLTHLN-----HEAFAHLGNFLYLLSTLLGAATGLISAVVIKKLYF 242
 Db 324 IVLTNTAEG--LTRKNMSDVSGNQTFLOALDFLKMFGSAAAGTUTGLISALVLXIDL 381

QY 243 GRHSTDREVALMMLMAYLSYMLAELFDLSGILITFVFCGIVMGSHTYWHNVTESSRIITKHT 302
 Db 382 -RKTPSLEFGMMIIFAYLPYGLAEGISLSGIMAILFSGIVMGSHTYTHNLSPTVQILMQOT 440

QY 303 FATLSFLAETFLFYVGMALDIDKWRVSVDTPGTSIAVSSILMGLVMY--GRAAFVPEL 360
 Db 441 LRTVAPLCETCFVAFGL-----SIFSPF-HKFEISFVWCIVLVLFGRAVNIFFL 490

QY 361 SFLSNLAKNQSEKINFNQVWISGLMRGAVSMALAYNKFTRAGHTD---VRGNAIMI 417
 Db 491 SYLLNFR---DEKITPKMFMWFSGL-RGAIPALS-----HLDLEPMKRLQIG 539

QY 418 TSTITVCLSTVVRGMLTPLISYL-----LPHQNAATSMISD-----DNTPKSIHPI 467
 Db 540 TTTIVIVLFTILLGGSTMPILRLMDIEDAKAHRNKKDVLNLSKTEKMGNTVESEHLSL 599

QY 468 DQDSFIEFSGHNVRPDSIRGFLTRPTRTVHYVWRQFDDSPMRPVFGGR 517
 Db 600 TEEY-----EAHYIRQD-LKGFV-----W--LDKYLNPFFTR 632

RESULT 12
 US-10-297-022-7
 ; Sequence 7, Application US/10297022
 ; Publication No. US20030216310A1
 ; GENERAL INFORMATION:
 ; APPLICANT: INCYTE GENOMICS, INC.
 ; APPLICANT: THORNTON, Michael
 ; APPLICANT: WALIA, Narinder K.
 ; APPLICANT: YUE, Henry
 ; APPLICANT: NGUYEN, Damiel B.
 ; APPLICANT: LAL, Preeti
 ; APPLICANT: GANDHI, Ameena R.
 ; APPLICANT: TRIBOULEY, Catherine M.
 ; APPLICANT: YAO, Monique G.
 ; APPLICANT: RAMKUMAR, Jayalaxmi
 ; APPLICANT: AU-YOUNG, Janice
 ; APPLICANT: LU, Yan
 ; APPLICANT: TANG, Y. Tom
 ; APPLICANT: AZIMZAI, Valda
 ; APPLICANT: BRUNS, Christopher M.
 ; APPLICANT: GRIFFIN, Jennifer A.
 ; APPLICANT: YANG, Junming
 ; APPLICANT: BAUGHN, Mariah R.
 ; APPLICANT: SANJANWALA, Madhu S.
 ; APPLICANT: RAUMANN, Brigitte E.
 ; APPLICANT: LEE, Ernestine A.
 ; APPLICANT: HAFALIA, April
 ; APPLICANT: GREENE, Barrie D.
 ; APPLICANT: KEARNEY, Liam
 ; APPLICANT: ELLIOTT, Vicki S.
 ; APPLICANT: SEILHAMER, Jeffrey J.
 ; APPLICANT: POLICKY, Jennifer L.
 ; APPLICANT: BOROWSKY, Mark L.
 ; APPLICANT: BURFORD, Neil

```

; APPLICANT: DING, Li
; APPLICANT: LU, Dying Aina M.
; APPLICANT: HILLMAN, Jennifer L.
; TITLE OF INVENTION: TRANSPORTERS AND ION CHANNELS
; FILE REFERENCE: PI-0109 PCT
; CURRENT APPLICATION NUMBER: US/10/297,022
; CURRENT FILING DATE: 2002-11-25
; PRIOR APPLICATION NUMBER: 60/208,424; 60/209,001; 60/210,588; 60/212,335; 60/213,747;
; PRIOR FILING DATE: 2000-03-26; 2000-06-01; 2000-06-08; 2000-06-16; 2000-06-22; 2000-06-22
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 673
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030216310A1 7475617CD1
US-10-297-022-7

Query Match      21.9%; Score 604; DB 14; Length 673;
Best Local Similarity 30.0%; Pred. No. 1.8e-47;
Matches 178; Conservative 102; Mismatches 189; Indels 124; Gaps 20;

QY 21 VALNLFVALLCACIVLGHLEEN--RWNNESITALLIGLGTGV-----61
Db 19 VSLTIFILLTTLTILNIFKRRVRFLHETGLMIYGLIVGLRYGTPATSGRDKSL 78
QY 62 -----TILL-----ISKGKSHL-----LVFSEDLFFIYLLPI 90
Db 79 CTQEDRAFSTLLVNVGKFFEYTLKGEISPGKINSVEQNDMLKVKTFDPEVFNILLPI 138
QY 91 IFNAGQVKKKOFFRNFVIMLPGAVGTIISCTIIS--LGVTFPKKLD--IGTFDLGD 145
Db 139 IFHAGYSLKRRHFRNGLSILAYAFILGAVTSCFIIGNLMYGVVVKLMKIMGQSKDYTD 198
QY 146 YLAIGAIFRATDSVCTQLVNODETPL-LYSLVFGGVDNATSVVFNAIQSFDTLH 204
Db 199 CLFFGAILISATDVTVIAIFNEHADVLDYALLFGESVLNDVAIVLSSIVAYQAGLN 258
QY 205 HE-----AAPHLLGNFLYIFLLSTLLGAATGLISAVYIK--KLYFGHSTDREVALMGLM 257
Db 259 THAFDAARAPKSVGIFLIGFSGFTMGAVTGVTALVTKTKLHC---FPLLETALFFLM 315
QY 258 AYLSYMLAEFLDSLGLTVFPGVIMSHYTHWNTESRTTKHTFATLSFLAETRIELY 317
Db 316 SWSTFLLAECGFTGVVAVLFCGITQAHYTYNNLSVESRRTKQLEFVLHFLAENFIYSY 375
QY 318 VGMDALDIDKWSVSDTPGTSIAVSSITLMG---LVMVGRAAFVFPPLSFLGNLAKKNQSEK 374
Db 376 MGLALFTFQK-----HVFSPFIIGAFVAFILGRAAHYPLSFFLNLGRH--K 422
QY 375 INFNMQVVIWWSGLMRGAVSMALAYNKETRAGHTDVRGNAMITSTTVCLFSTVFGML 434
Db 423 IGWNFQHMFMFSGL-RGAMAFALAIR-----DTASYARQMMFTTILLIIVFTVWIIGGG 475
QY 435 TKPLISVLLPHONATTSMLSDNTTPKSIH-----IPLLQDSFIEPSGNHNV 481
Db 476 TTPMLSLW-----NTRVGVEEPESEDDHEHHWQYFRVGVDPDQDPPNDPSFQV-LQGD--- 528
QY 482 PRDPSIRGELTR-PTRTVHYVWRQFDPSFMRPVFGGRGVFPVFGSPITERNPP 533
Db 529 -GPDARSAGNRTQESAMIFRLWYFSDHNYLKFIL-----THSGPP 567

RESULT 13
US-10-262-511-134
; Sequence 134, Application US/10262511
; Publication No. US20040038223A1
; GENERAL INFORMATION:
; APPLICANT: Smithson, Glennda
; APPLICANT: Millet, Isabelle
; APPLICANT: Peyman, John A.
```

```

; APPLICANT: Kekuda, Ramesh
; APPLICANT: Ju, Jingfang
; APPLICANT: Li, Li
; APPLICANT: Guo, Xiaojia (Sasha)
; APPLICANT: Patturajan, Meera
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Edinger, Shlomit R.
; APPLICANT: Ellerman, Karen
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Ort, Tatiana
; APPLICANT: Gorman, Linda
; APPLICANT: Zethusen, Bryan D.
; APPLICANT: Anderson, David W.
; APPLICANT: Zhong, Mei
; APPLICANT: Catterton, Elina
; APPLICANT: Ji, Weizhen
; APPLICANT: Miller, Charles E.
; APPLICANT: Rastelli, Luca
; APPLICANT: Stone, David J.
; APPLICANT: Pena, Carol E. A.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Shimkets, Richard A.
; APPLICANT: Rothenberg, Mark E.
; APPLICANT: Leach, Martin D.
; APPLICANT: Agee, Michele L.
; APPLICANT: Berghs, Constance
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-462C
; CURRENT APPLICATION NUMBER: US/10/262,511
; CURRENT FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: 60/326,483
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: 60/373,815
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: 60/327,917
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/381,642
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/328,029
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: 60/381,038
; PRIOR FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: 60/328,056
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/373,260
; PRIOR FILING DATE: 2002-04-17
; PRIOR APPLICATION NUMBER: 60/373,826
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: 60/327,435
; PRIOR FILING DATE: 2001-10-05
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 439
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 134
; LENGTH: 588
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-262-511-134

Query Match      21.6%; Score 595.5; DB 15; Length 588;
Best Local Similarity 31.8%; Pred. No. 9.3e-47;
Matches 171; Conservative 99; Mismatches 190; Indels 77; Gaps 22;

QY 16 DHASVVALNLFVALLCACIVLGHLEENR--WNNESITALLIGTGTGVTILLISKGKSH 73
Db 55 EQSGMTIFFSLLVLAICIIIVHLLIRVLFHFLPSVAVVSLGILMGAVIKIIEFKLAN 114
QY 74 LL---VFSEDLFFIYLLPPIFNAGQVKKQ-----PPNFVTIMLFGAVGTIISCT 123
Db 115 WKEEMFRPNFFULLLPIIFESGYSILHKVRLRHTLGNFFQNTGSITLFAVGTALSAF 174
QY 124 IISGVTFQFKLD-IGTFDLGDYLAICAIPAADTSVCTLOVLNQ-DETPLLYSLVFGEG 181
```


Db 175 VVGGGI-YFLGQADVSKLNMTDSFAFGSLISAVDPVATIAIPNALHVDVNLNVGES 233
QY 182 VVNDATSVVFNIAQISFDTHLN-----HEAAHLLGNFLYFLSTLLGAATGLISAY 235
Db 234 ILNDVAVSVILNTAEG--LTKNMSDVSGWQTFLOALDYFLKMFSGAALGLTGLISAL 291
QY 236 VIKKLYFGHSTDEVALMMAYLSYMLAEFLDLSGILTVFPGIVMNGHYTHWNTSS 295
Db 292 VLKHDL-RKTSLEFGMMIIFAYLPYGLAGISLJSGMAILFSGIVMNGHYTHNLSPVT 350
QY 296 RITKHTFATLSFLAETFIYLVGMDALDIDKWRVSVDTPGTSIAYSSILMGLVMY--GR 353
Db 351 QILMOQTLRTVAFCTCVFAFLGL-----SIFSEP-HKPEISFVWICVIVLFR 400
QY 354 AAFVPLSFLSNLAKKQSEKINFNQVWVWSGLMRGAVSMALAYNKFTTRAGHTD---V 410
Db 401 AVNIPLSYLLNFR---DHKITPKMMFLMWFSGL-RGAIPVALSL-----HLDLEPM 449
QY 411 RGNATMITSTIVCLFSTVFGMLTKPLISYL-----LPHONATSMISD-----DNTPK 460
Db 450 EKRQLIGTTIVIVFTILLGGSTWPLRLMDIEDAKAHRENKXOVNLSKTKRMGNTVE 509
QY 461 SHIFLLQDQSFIEPSGNHNVPRDPSIRGFLTRPTRTVHYWYRQDPSMRPVFGGR 517
Db 510 SEHLSLTEREY---EAHYIRQD-LKGFV-----W-LDAKYLNPFFTR 549

RESULT 14

US-10-072-012-654
; Sequence 654, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zethusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shimkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca
; APPLICANT: Miller, Charles E.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Colman, Steven D.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Gross, William M.
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10/072,012
; CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05

; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 654
; LENGTH: 725
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-072-012-654

Query Match 21.5%; Score 593.5; DB 15; Length 725;
Best Local Similarity 29.7%; Pred. No. 1.9e-46;
Matches 182; Conservative 103; Mismatches 197; Indels 131; Gaps 22;

QY 7 SKLPSLSTSDHA-----SVVALNLFVALLCACIVLGHLEEN--RWMNESITALLIGL 58
Db 52 SAMEELATEKEAEESHRODSVSLTLLTILTLILFKHRRVFLHETGLMIYGLI 111
QY 59 TGV-----TILL-----ISKXSSH----- 74
Db 112 VGVILRYGTPATSGRDKSLCTQEDRAFSTLIVNVSGKFFHYTLKGEISPGKINSVEQND 171
QY 75 ---LVFSEDLFFIYLLPPIFNAGFQVKQOFFNFVTIMLFGAVGIIISCTIIS---L 127
Db 172 MRKVTDFEVEFNILLPPIIPHAGYSILKHHFFHGLSILAYAFGLTAVSCFIIGNLMY 231
QY 128 GVTQFFKKLD--IGTFDLGDYLAIGAIPAADSDVCTLOVNLQDETPL-LYSLVFEGEVN 184
Db 232 GWKLMKIMGQLSDKFYYTDCLEFGAIIISATDPVTVLAIHNLHADVDLYALLFGESVLN 291
QY 185 DATSVVFNALQSDPLTHNHE-----AAHLLGNFLYFLSTLLGAATGLISAYVIK- 238
Db 292 DAVAIVLSSSIYAYQAGLNTAFDAFAFFKSVGIFLGIFSGFTMGAVTG-VNANVTKF 350
QY 239 -KLYFGRHSTDREVALMMAYLSYMLAEFLDLSGILTVFPGIVMNGHYTHWNTSSRI 297
Db 351 TKLHC---FPLETALFELMSWSTFLAECGFGVAVLFCGFTQAHYTYNNLSVESRS 407
QY 298 TTKHTFATLSFLAETFIYLVGMDALDIDKWRVSVDTPGTSIAYSSILMG---LVMVGRA 354
Db 408 RTKQLFEVLHFLAENFISYMGIALFTFQK-----HVFSPFIIGFAVFLIGRA 457
QY 355 AFVPEPLSFLSNLAKKQSEKINFNQVWVWSGLMRGAVSMALAYNKFTTRAGHTDVRGNA 414
Db 458 AHYPLSFFLNLGRRH--KIGWNFQHMMPFSGL-RGAMAFALAIR-----DTASYARQ 507
QY 415 IMITSTIVCLFSTVFGMLTKPLISYLLPHONATSMISDNTPKSIH----- 463
Db 508 MMFTILLIVFFTWIIIGGTTPLMSWL---NIRVGVEPSESDQNEHHQYFRVGVDP 563
QY 464 --IPLLDQDQSFIEPSGNHNVPRDPSIRGFLTR-PTRTVHYWYRQDPSMRPVFGGRGV 520
Db 564 DQDPPPNNDQFVQLQD---GPDARGNRTKQESAMIFRLWYDFDNYLKPL- 613
QY 521 PFVPGSPTERNPP 533
Db 614 -----THSGPP 619

RESULT 15

US-10-072-012-246
; Sequence 246, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zethusen, Bryan
; APPLICANT: Patturajan, Meera

259 THAFDAAFKSVGIFLGIFSGFTMGAVTGVVVALISFLQNAVTKFKLHCFPLETA 318
253 LMMIMAYLSYMLAEFLDLGILTVFCGIVMSHYTNHNTVTESSRTTKHTTATLSFLAET 312
319 LFFLMSWSTFLAEACGFTGVAVLFCGITHYNNLSVESRSTKQLFEVLHFLAEN 378
313 FIFLYVGMALDIDKMRVSVDTPGTSIATVSSILMG---LVMVGRAAFVPLSELNLAKK 369
379 FIFSYMGLALFTFOK-----HVFSPFIITGAFAVPLGRAAHYPLUSFFINIGRR 428
370 NQSEKINFMQVVIWWSGLMEGAVSMALAYNKFTAGHTDVRGNAMITSTITVCLFSTV 429
429 H---KICWNFOHMMWFSGL-RGAWAFALAIR-----DTASYARQMFTTILLIVFFTVW 478
430 VFGMLTKPLISYLLPHQWATTSMLSDNTPKSIHPLLDQDSFTEPSGNHNVPRDPSIRG 489
479 IIGGTTPLMSWL-----NIRLDGDSARG 503
490 FLTR-PTRTVHYWYRQFDDSFMRPVFGGRGVFVFGSGFTERNPP 533
504 NRTKQESAWIFRLWYFDHNYLKPIL-----THSGPP 535

Search completed: October 26, 2004, 17:16:20
Job time : 132 secs

APPLICANT: Shimkets, Richard
APPLICANT: Li, Li
APPLICANT: Gangolli, Esha
APPLICANT: Padigar, Muradidhara
APPLICANT: Anderson, David W.
APPLICANT: Rastelli, Luca
APPLICANT: Miller, Charles E.
APPLICANT: Gerlach, Valerie
APPLICANT: Taupier Jr, Raymond J.
APPLICANT: Gusev, Vladimir Y.
APPLICANT: Coleman, Steven D.
APPLICANT: Wolenc, Adam R.
APPLICANT: Pena, Carol E. A.
APPLICANT: Furtak, Katarzyna
APPLICANT: Grosse, William M.
APPLICANT: Alsobrook II, John P.
APPLICANT: Lepley, Denise M.
APPLICANT: Rieger, Daniel K.
APPLICANT: Burgess, Catherine E.
TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-258
CURRENT APPLICATION NUMBER: US/10/072,012
CURRENT FILING DATE: 2002-01-31
PRIOR APPLICATION NUMBER: 60/265,102
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: 60/265,514
PRIOR FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 60/265,517
PRIOR FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 60/265,412
PRIOR FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 60/265,395
PRIOR FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 60/266,406
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: 60/266,767
PRIOR FILING DATE: 2001-02-05
PRIOR APPLICATION NUMBER: 60/267,057
PRIOR FILING DATE: 2001-02-07
PRIOR APPLICATION NUMBER: 60/266,975
PRIOR FILING DATE: 2001-02-07
PRIOR APPLICATION NUMBER: 60/267,459
PRIOR FILING DATE: 2001-02-08
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1391
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 246
LENGTH: 641
TYPE: PRT
ORGANISM: Homo sapiens
US-10-072-012-246
Query Match 21.4%; Score 590; DB 15; Length 641;
Best Local Similarity 28.9%; Pred. No. 3.5e-46;
Matches 169; Conservative 99; Mismatches 177; Indels 140; Gaps 17;
QY 21 VALNLFVALLCACIVLGHLEEN--RMNNSIYALLIGLGTGV-----61
DB 19 VSLTFTLLLTTLITLWLFKRRVRLHETGLMIYGLIVGVILRYGTPTATSGRDKSL 78
QY 62 -----TILL-----ISKGSSHL-----LVFSEDLFFIYLLPPI 90
DB 79 CTQEDRAFTLLNVNVSCKFEYTLKGLSPKINSVEQNDMLRKVTDPVEVFNILLPPI 138
QY 91 IFNAGFQVKKQPRNFVTMLFGAVGTIIISCTIIS---LGVTFQFFKLD--IGTFDLGD 145
DB 139 IFHAGYSLKKRHHFFNLGSLIAYAFGLTAVSCFIIGNLMYGVVWKLKMGQLSDKFVYTD 198
QY 146 YLAIGALFAATSDVCTQLVNLQDTEPL-LYSLVFGGVNDATSVVFNALQSFDLTHLN 204
DB 199 CLFFGALISATDPVTLAIFNELHADVDLVALFGEISVINDAVAIVLSSSIYAYQAPAGLN 258
QY 205 HE-----AAFHLGNFLYLLSTLLGATGLISAYV-----IKKLYFGRHSTDREVA 252

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OM protein - protein search, using sw model

Run on: October 26, 2004, 17:00:52 ; Search time 40 Seconds
(without alignments)
891.977 Million cell updates/sec

Title: US-09-271-584A-2

Perfect score: 2755

Sequence: 1 MLDSLVSKLPSLSTSDHASV.....FVPFVPGSPTRNPPDLKSA 538

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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- 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
- 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
- 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
- 5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB ID	Description
1	565	20.5	526	4	US-09-800-729-180	Sequence 180, App
2	563	20.4	509	4	US-09-800-729-93	Sequence 93, Appl
3	471	17.1	832	2	US-08-677-734A-12	Sequence 12, Appl
4	471	17.1	832	2	US-09-097-053-12	Sequence 12, Appl
5	467	17.0	831	2	US-08-677-734A-11	Sequence 11, Appl
6	467	17.0	831	3	US-09-097-053-11	Sequence 11, Appl
7	462	16.8	834	2	US-08-677-734A-9	Sequence 9, Appl
8	462	16.8	834	2	US-08-677-734A-10	Sequence 10, Appl
9	462	16.8	834	3	US-09-097-053-9	Sequence 9, Appl
10	462	16.8	834	3	US-09-097-053-10	Sequence 10, Appl
11	420	15.2	822	4	US-09-824-734-3	Sequence 3, Appl
12	353.5	12.8	370	4	US-09-800-729-215	Sequence 215, App
13	320	11.6	339	4	US-09-800-729-128	Sequence 128, App
14	320	11.6	339	4	US-09-800-729-129	Sequence 129, App
15	263.5	9.6	696	4	US-09-107-532A-4163	Sequence 4163, App
16	258	9.4	1146	4	US-09-824-734-2	Sequence 2, Appl
17	244	8.9	620	4	US-09-352-991A-21110	Sequence 21110, A
18	240.5	8.7	544	4	US-09-489-039A-14296	Sequence 14296, A
19	215	7.8	683	3	US-09-134-001C-5576	Sequence 5576, App
20	207	7.5	554	4	US-09-543-681A-5774	Sequence 5774, App
21	200	7.3	562	4	US-09-489-039A-8574	Sequence 8574, App
22	195.5	7.1	228	4	US-09-248-796A-20756	Sequence 20756, A
23	185.5	6.7	578	4	US-09-489-039A-14097	Sequence 14097, A
24	185.5	6.7	684	4	US-09-583-110-5255	Sequence 5255, App
25	178	6.5	424	4	US-09-824-734-4	Sequence 4, Appl
26	178	6.5	514	4	US-09-252-991A-20338	Sequence 20338, A
27	165	6.0	431	4	US-09-328-352-4236	Sequence 4236, App

ALIGNMENTS

RESULT 1

US-09-800-729-180
; Sequence 180, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044Pl
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 180
; LENGTH: 526
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (37)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (185)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (215)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (216)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (261)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (263)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (311)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (318)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (320)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (510)

28 158.5 5.8 597 4 US-09-252-991A-32657 Sequence 32657, A
29 144 5.2 511 4 US-09-602-787A-668 Sequence 668, App
30 138 5.0 591 4 US-09-543-681A-7047 Sequence 7047, App
31 137.5 5.0 800 3 US-09-134-001C-5655 Sequence 5655, App
32 134.5 4.9 412 4 US-09-248-796A-20758 Sequence 20758, A
33 134 4.9 485 4 US-09-540-236-2534 Sequence 2534, App
34 131 4.8 613 4 US-09-328-352-7991 Sequence 7991, App
35 130.5 4.7 477 3 US-09-134-001C-3487 Sequence 3487, App
36 129 4.7 412 4 US-10-138-701-59 Sequence 59, Appl
37 126 4.6 408 4 US-09-107-532A-3796 Sequence 3796, App
38 121 4.4 617 3 US-09-134-001C-4012 Sequence 4012, App
39 118 4.3 434 4 US-09-543-681A-7154 Sequence 7154, App
40 117.5 4.3 469 4 US-08-956-171E-5245 Sequence 5245, App
41 117.5 4.3 469 4 US-08-781-986A-5245 Sequence 5245, App
42 114.5 4.2 453 4 US-09-252-991A-32168 Sequence 32168, A
43 114.5 4.2 651 4 US-09-252-991A-18065 Sequence 18065, A
44 113.5 4.1 304 4 US-09-328-352-6459 Sequence 6459, App
45 113.5 4.1 616 4 US-09-540-236-3084 Sequence 3084, App

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; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (515)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (516)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (522)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-800-729-180

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Query Match 20.5%; Score 565; DB 4; Length 526;
Best Local Similarity 30.7%; Pred. NO. 2e-48;
Matches 166; Conservative 92; Mismatches 173; Indels 110; Gaps 19

[illegible]

RESULT 2

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US-09-800-729-93
; Sequence 93, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044PI
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn Ver. 2.0

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; SEQ ID NO 93
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (20)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (168)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (198)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (199)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (244)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (246)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (294)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (301)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (303)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (493)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (498)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (499)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (505)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; US-09-800-729-93

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Query Match	20.4%;	Score 563;	DB 4;	Length 509;
Best Local Similarity	31.1%;	Pred. No. 3e-48;		
Matches 162; Conservative	90;	Mismatches 165;	Indels 104;	Gaps 18;

[illegible]

QY 315 FLYVGMALDIDKWSVSDPTGTSIAVSSILMG---LVMVGRAAFVPELSFSLNLAQKQ 371
Db 373 FSYMGLALFTQK-----HVFSPFIIGAFVAIFLGRAHIYPLSFNLRH- 421
QY 372 SEKINFMQVIVMWSGLMRGAVSMALAYNKFTRAGHTDVRGNALMITSTITVCLFSTVWF 431
Db 422 --KIGMFMQMFSGU-RGAMAFALAIR-----DTASYARQMMFTTLLIVFFTWII 472
QY 432 GMLTKPLISYLLPHQNTATSMLSDDNTPKSIHPLLDQDSF 472
Db 473 GGGTTPMLSM-----NIRVGVDPDXPDP-----PXDSFAP 504

RESULT 3

US-08-677-734A-12
; Sequence 12, Application US/08677734A
; Patent No. 5871919
; GENERAL INFORMATION:
; APPLICANT: Brant, Steven R.
; APPLICANT: Yun, Chris C.H.
; APPLICANT: Donowitz, Mark
; APPLICANT: Tse, Chung-Ming
; TITLE OF INVENTION: Cloning, Tissue Distribution, and
; TITLE OF INVENTION: Functional Analysis Of The Human Na+/H+ Exchanger Isoform,
; TITLE OF INVENTION: NHE3.
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/677,734A
; FILING DATE: 10-JUL-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fordis, Jean B.
; REGISTRATION NUMBER: 32,984
; REFERENCE/DOCKET NUMBER: 05387.0043-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 408-4000
; TELEFAX: (202) 408-4400
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 832 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-677-734A-12

Query Match 17.1%; Score 471; DB 2; Length 832;
Best Local Similarity 29.1%; Pred. No. 1.4e-38;
Matches 148; Conservative 96; Mismatches 197; Indels 68; Gaps 19;
QY 20 VVALNLFVALLCACIV-LGHLLLENWMMESITALLIGLGTGVTIILLISGKSSHLVLF- 77
Db 56 IIALWLVASLAKIVFHLSH-KVTSVPESALLIVGLVGLGVL-----AADHLASFT 108
QY 78 -SEDLFFIYLLPIINAGQVKKQFFRNFVIMLFGAVGTIISCTIISLGTQTFKLL 136
Db 109 LTPVFFYLLPPIVDAGYFMENRLLFSLNLSLLYAVVGTVMNAATGSLSYGVFLSG 168
QY 137 DIGTFDLG--DYALGAIFRATDSVCTQLVQNG-DETFLLYSLVFGSGVNDATSVVWFN 193

Db 169 IMGELKIGLLDFLFGSLTAAVDPVAVLAFEEVHNNEVLIIVFGESLINDATVVLYN 228
QY 194 AIOSEFDLTHLNEHAAPHLLGNFLYLFLSLTLLGAATGLISAYVIKKL-YFGRHSTDEVA 252
Db 229 VFOSFVTLGDKVTGDCVKGIVSFFWVS-LGGLTVGVVFAFLLSLVTRFTKHVRVIEPG 287
QY 253 LMMMLAYSLMIAELFDLSGILTVFFCGIVMSHYTHWNTVTESSRIITTKHTFATLSLAET 312
Db 288 FVEIISYLSYLTSEMLSLSLAITFCGICQYKVKANISEQSATTVRYTMKMLASGAET 347
QY 313 FIFLYVGMALDIDKWSVSDPTGTSIAVSSILMGLVMVGRAAFVFPPLSFLSNLAKNQ 372
Db 348 IIFMFLGISAVDPLIW-----TWNTAFVRLTL--FVSVFRAIGVIVLQWLLNRYRVQL 400
QY 373 EKINFMQVIVMWSGLMRGAVSMALAY---NKFTRAGHTDVRGNALMITSTITVCLFST 428
Db 401 ELID---QVMSYGLL-RGAVAFALVALLDGK-----VKEKNLFVSTIIWVFTV 448
QY 429 VVFGMLTKPLISYLLPHQNTATSMLSDDNTPK---SIHPLLDQDSFIEPSGNHNVPRPD 485
Db 449 IFQGLTIKPLVQWLKVKR-----SEHRBPKLNEKLHGRAFD-----HILSAIE 491
QY 486 SIRGFLRPRTRVHY---WRQFDDSPM 510
Db 492 DISG-----QIGHNYLRDKWANFDRRPL 514

RESULT 4

US-09-097-053-12
; Sequence 12, Application US/09097053
; Patent No. 6392025
; GENERAL INFORMATION:
; APPLICANT: Brant, Steven R.
; APPLICANT: Yun, Chris C.H.
; APPLICANT: Donowitz, Mark
; APPLICANT: Tse, Chung-Ming
; TITLE OF INVENTION: Cloning, Tissue Distribution, and
; TITLE OF INVENTION: Functional Analysis Of The Human Na+/H+ Exchanger Isoform,
; TITLE OF INVENTION: NHE3.
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/097,053
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/677,734
; FILING DATE: 10-JUL-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Fordis, Jean B.
; REGISTRATION NUMBER: 32,984
; REFERENCE/DOCKET NUMBER: 05387.0043-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 408-4000
; TELEFAX: (202) 408-4400
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 832 amino acids
; TYPE: amino acid
; STRANDEDNESS: single

494 -----QIGHNYLRDKWSNDRKFLSKV 515

Db

RESULT 7

US-08-677-734A-9

; Sequence 9, Application US/08677734A

; Patent No. 5871919

; GENERAL INFORMATION:

; APPLICANT: Brant, Steven R.

; APPLICANT: Yun, Chris C.H.

; APPLICANT: Donowitz, Mark

; APPLICANT: Tse, Chung-Ming

; TITLE OF INVENTION: Cloning, Tissue Distribution, and

; TITLE OF INVENTION: Functional Analysis Of The Human Na+/H+ Exchanger Isoform,

; TITLE OF INVENTION: NHE3.

; NUMBER OF SEQUENCES: 12

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &

; ADDRESSEE: Dunner

; STREET: 1300 I Street, N.W., Suite 700

; CITY: Washington

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20005-3315

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/677,734A

; FILING DATE: 10-JUL-1996

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Fordis, Jean B.

; REGISTRATION NUMBER: 32,984

; REFERENCE/DOCKET NUMBER: 05387.0043-00000

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202) 408-4000

; TELEFAX: (202) 408-4400

; INFORMATION FOR SEQ ID NO: 9:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 834 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; US-08-677-734A-9

Query Match 16.8%; Score 462; DB 2; Length 834;

Best Local Similarity 28.6%; Pred. No. 1.1e-37;

Matches 146; Conservative 97; Mismatches 203; Indels 64; Gaps 18;

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Db 57 VIALMLVASLAK---IGFHLSHKVTVPVSEALLVLG-----LVLGIVMAADHIAS 107

QY 77 E--SEDLFFIYLLPPIIFNAGFOVKKQFFNFVTIMLFGAVGTIISCTIISLGVTQFFK 134

Db 108 FTLTPVFFIYLLPPIIVLDAGYFMPNRLFFGNLGTILLYAVGVTVWNAATGLSLXGVFL 167

QY 135 KLDIGTFDLG--DYLAIGAIFAATDSVCTQLVQ--DETPLYSLVFGGVNDATSVVV 191

Db 168 SGLMGDLQGLDFFLLFGSLMAADVPVAVLAVFEEVHVNEVLFIIVFGESLLNDAVTVL 227

QY 192 FNAIOFDTLHNHEAAPHLLGNFLYLLSTLLGAATGLISAYVIKKL-YFGRHSTDR 250

Db 228 XNVFSEFVALGDNVTGDCVKGVSEFFVVS-LGGTLVGWVFAFLSLVTRFTKHVRIIE 286

QY 251 VALMLMAYLSYMLAELFDLSGLITVFFCGIVMHSYTHWNTVTESSRITTKHTEATLSFLA 310

Db 287 PGFVFIISYLSLTSEMLSLALITFCGICCKYKVNANISEQSATTVRYTKMLASSA 346


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; APPLICANT: STEVENSON, BECKY
; TITLE OF INVENTION: PROTEINS AND DNA RELATED TO SALT TOLERANCE IN PLANTS
; FILE REFERENCE: 205644US20
; CURRENT APPLICATION NUMBER: US/09/824,734
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: US 60/194,648
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 822
; TYPE: PRT
; ORGANISM: Cricetus griseus
US-09-824-734-3

Query Match      15.2%; Score 420; DB 4; Length 822;
Best Local Similarity 25.4%; Pred. No. 2e-33;
Matches 149; Conservative 100; Mismatches 200; Indels 138; Gaps 23;

QY 23 LNFVALLCACIVLCHLLE-NRWNNESITALLIGLGTGVTILLISKSGSHLLVFSEDL 81
Db 109 ISWLLACLAKIGFIPTISSIVPSSCLLVVGLLVGGLI-----KGVGETPPFLQSDV 164
QY 82 FFIYLLPIIFNAGFOVKKOFFNFVTIMLFGAVTI-----ISCTIISLGVTOFF 133
Db 165 FFIYLLPIILDAGFYPLQFTENLTILFAVVGTLNNAFFLGGLLYAVCLVGGEQ-- 222
QY 134 KKLIDGTFDLGDAIGAIFAATDSVCTLOYNQDE-TPLLYSIVFGEVGVNDATSVVVF 192
Db 223 ----INNIGLLDTLFGSIISAVDPVAVVAFEBIHINELLHLVFGESLLNDVTVVLY 278
QY 193 NATQSPDLTHLNEAAHFLIG-----NFLYFLLS---TLGATGLISAYVIKKLYFG 243
Db 279 HLPFEF-----ANYDSIGISDIFLGLFSFFVVALGVGVGVVGVIAFTSR---FT 327
QY 244 RHSTDREVALMMLAYLSYLAELFDLSGILTVFFCGIVMSHYTHWNVTESSRITTKHTF 303
Db 328 SHRVIEPLFVFLYSYMAYSYLAELFHSUGMALIASGVVVRPYVEANISHKSHITIKYFL 387
QY 304 ATLSFLAETIFLYVGMDALDIDKWRVSVDTPGT-----SIYVSSILMGLVMVGRAAVF 358
Db 388 KMWSSVSETLIFILG-----VSTVAGSHQNNWTFVISTLL--FCLTARVLGVL 434
QY 359 PLFSLNLAKNQSEKINFNMQVVIWWSGLMRGAVSMALAY-----NKPTRAGHTDVRGNA 414
Db 435 VLTWFN--KFRIVKLTQDQFIAYVGLL-RGAIAFSLGLYMDKKHFMCD-----482
QY 415 IMITSTITVCLFSTVVRGMLTKPLISYLLPHONATTSMLSDNTPKSIHITPLLDQDSFIE 474
Db 483 LFLTALTITVFFVVGQMTIRFLVDLLAVKKQETKR-----SINEIHTQFLD-----532
QY 475 PSGNHNVRPDSIRGLTRPRTVHYWR-----QFDDSFMRPVF-----514
Db 533 ---HLLTGIEDICGHY-----HHWKDKLRNFKYVKKCLLAGERSKEPQLIAFYH 582
QY 515 -----GGRGFVFFV-----PGS-PTERNPPDLK 537
Db 583 KMEKQAIELVESGGMKTFPSAVSTVSMQNIHPKMSASERILPALSK 629
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RESULT 12

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US-09-800-729-215
; Sequence 215, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; QUERY MATCH 11.8%; Score 320; DB 4; Length 339;
Best Local Similarity 29.9%; Pred. No. 7.2e-24;
Matches 84; Conservative 52; Mismatches 93; Indels 52; Gaps 10;

QY 257 MAYLSYMLAELFDLSGILTVFFCGIVMSHYTHWNVTESSRITTKHTFATLSPLAETIFIL 316
Db 1 MSWSTFLAELACGFTGVAVLFCGITOAHYTTNNLSVESRSRTKQLFEVLHFLAENPIFS 60
QY 317 YVGMDALDIDKWRVSVDTPCTCTSIYVSSILMG---LYMVGRAAFPVFLSFTLSNIAKNQSE 373
Db 61 YMGIALFTFQK-----HVFSPFIIGAVFAIFLGRAAHYPLSPFLNLGRRH--- 107
QY 374 KINFNMQVVIWWSGLMRGAVSMALAYNKPTRAGHTDVRGNAIMTSTITVCLFSTVVRGML 433
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; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 215
; LENGTH: 370
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-800-729-215

Query Match      12.8%; Score 353.5; DB 4; Length 370;
Best Local Similarity 30.8%; Pred. No. 3.3e-27;
Matches 97; Conservative 57; Mismatches 104; Indels 57; Gaps 12;
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QY 225 LGAATGLISAYVIK--KLYFGRHSTREVALMMLAYLSYMLAELFDLSGILTVFFCGIV 282
Db 1 MGAVTGVVVALVTKTKLHC---FPLLETALFFLMSWSTFLAACGFTGVAVLFCGIT 57
QY 283 MSHYTHWNVTESSRITTKHTFATLSFLAETIFLYVGMDALDIDKWRVSVDTPCTCTSIYV 342
Db 58 QAHYTYNNLSVESRSRTKQLFEVLHFLAENPIFSYMGIALFTFQK-----HVFSP 107
QY 343 SILMG---LYMVGRAAFPVPLSFLSNLAKNQSEKINFNMQVVIWWSGLMRGAVSMALAY 399
Db 108 IFIIGAFAVLFGRAAHYPLSPFLNLGRRH---KIGWNFOHMMWFSGL-RGAWAFALAI 163
QY 400 NKPTRAGHTDVRGNAIMTSTITVCLFSTVVRGMLTKPLISYLLPHONATTSMLSDNTPT 459
Db 164 R-----DTASYARQMMFTTLLIVFFTVWIGGTTPLMSWL---NIRGVDPDQDPP 213
QY 460 KSIHIPLLDQDSFIEPSGNHNVRPDSIRGLTR-PRTVHYVWRQFDDSFMRPVFGGRG 518
Db 214 P-----NNDSPQLQSD---GPDSSARGNRTKQESAWIFRLWYSFDHNYLKBIL----258
QY 519 FVFPVPGSPERNPP 533
Db 259 -----THSGPP 264
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RESULT 13

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US-09-800-729-128
; Sequence 128, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 128
; LENGTH: 339
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-800-729-128
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Query Match

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US-09-800-729-128
; Sequence 128, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; QUERY MATCH 11.8%; Score 320; DB 4; Length 339;
Best Local Similarity 29.9%; Pred. No. 7.2e-24;
Matches 84; Conservative 52; Mismatches 93; Indels 52; Gaps 10;

QY 257 MAYLSYMLAELFDLSGILTVFFCGIVMSHYTHWNVTESSRITTKHTFATLSPLAETIFIL 316
Db 1 MSWSTFLAELACGFTGVAVLFCGITOAHYTTNNLSVESRSRTKQLFEVLHFLAENPIFS 60
QY 317 YVGMDALDIDKWRVSVDTPCTCTSIYVSSILMG---LYMVGRAAFPVFLSFTLSNIAKNQSE 373
Db 61 YMGIALFTFQK-----HVFSPFIIGAVFAIFLGRAAHYPLSPFLNLGRRH--- 107
QY 374 KINFNMQVVIWWSGLMRGAVSMALAYNKPTRAGHTDVRGNAIMTSTITVCLFSTVVRGML 433
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Db 108 KIGWFMHMMFSGL-RGAMAFALAIR-----DTASYARQMFTTLLIVFFTWIIGG 160
Qy 434 LTKPLISVLLPHONATSMLSDDNTPKSIHITPLLDQDSIEPSCGNHNVPRDPSIRGFILTR 493
Db 161 GTTPMLSLW-----NIRVGVDPPDPPP-----NNDSFQVLQGD-----GPDARSAGNRK 205
Qy 494 -PTRTVHYWRFQDSFMRPFVGGRGFVFPVPGSPTERNPP 533
Db 206 QESAWIFRLWISFDHNYLKPL-----THSGPP 233

RESULT 14
US-09-800-729-129
; Sequence 129, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 129
; LENGTH: 339
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-800-729-129

Query Match 11.6%; Score 320; DB 4; Length 339;
Best Local Similarity 29.9%; Pred. No. 7.2e-24;
Matches 84; Conservative 52; Mismatches 93; Indels 52; Gaps 10;

Qy 257 MAYLSYMLAEFLDLSGILTVFCGIVMSHYTHWNVTSSRIITKHTFATLSPLAETIFL 316
Db 1 MSWSTFLAEACGGTGVAVLFCGITOAHYTYNNLSVESRSTKQLFVFLHPLAENFI 60
Qy 317 YVGMALDIDKWRVSVDTPGTSIAVSSILMG---LVMVGRAAFVPEPLSFLNLAKNQSE 373
Db 61 YMGALFTFK-----HVFSPFIIGAFVAIFLGRAAHYPLSFFNLGRH--- 107
Qy 374 KINFNMQVIVWVGLMRAVSMALAYNKETRAGHTDVRGNAMITSTIVCLFSTVVFQM 433
Db 108 KIGWFMHMMFSGL-RGAMAFALAIR-----DTASYARQMFTTLLIVFFTWIIGG 160
Qy 434 LTKPLISVLLPHONATSMLSDDNTPKSIHITPLLDQDSIEPSCGNHNVPRDPSIRGFILTR 493
Db 161 GTTPMLSLW-----NIRVGVDPPDPPP-----NNDSFQVLQGD-----GPDARSAGNRK 205
Qy 494 -PTRTVHYWRFQDSFMRPFVGGRGFVFPVPGSPTERNPP 533
Db 206 QESAWIFRLWISFDHNYLKPL-----THSGPP 233

RESULT 15
US-09-107-532A-4163
; Sequence 4163, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts

COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 4163:
SEQUENCE CHARACTERISTICS:
LENGTH: 696 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...696
SEQUENCE DESCRIPTION: SEQ ID NO: 4163:
US-09-107-532A-4163

Query Match 9.6%; Score 263.5; DB 4; Length 696;
Best Local Similarity 24.1%; Pred. No. 1.2e-17;
Matches 99; Conservative 96; Mismatches 167; Indels 49; Gaps 17;
Qy 50 ITALLIGTGWTILLISKGSHLLVSEDLFFLYLLPPIFNAGFQVKKQFFERNFVT 109
Db 31 IPAPLIQIFLGVGLTGWGOS---IDPEPLFLVMIAPLLFREGEKADISSILKNFGT 87
Qy 110 IMLGAVCTIISCTIISLGVTFQFKKLDIGTFDLGDYLAIGAIFAATDSVCTQLVINOQE 169
Db 88 I-LFLAFGGVI-LTILVGVGAILSEL---LPSVPLAACFAFGAALGPTDAVAVSSLSGRVN 142
Qy 170 TPLLYSLVFGGVVNDATSVVFNAIQSFDLTHNHEAAFHLLGNFLYL-----FLIST 223
Db 143 IPKAMHILEGEGLLNDASGVTAFA---QFALGAL-----ITGSFSAVNAGMSLVSS 191
Qy 224 LLGAATGLISAVIVKLYFGRHSTDEVA-----LMMLMAYLSYMLAEFLDLSGILT 275
Db 192 TGGALIGFLVWFKOKII---HLIEKASQDVGTGVLLELLPFLAYVLAFAFVSGIIA 248
Qy 276 VFFCGIVM-SHYTHWNVTSSRIITKHT-FTATLSPLAETIFLYVGMALDIDKWRVSVD 333
Db 249 AVAAGILQASGPRKISVDFDAELSSLSHSTWTIATLNALVFIFLGIELTQV-----FSP 303
Qy 334 TPGTTSIAVSSILMGLVMVGRAAFVPEPLSFLS---NLAKNOSKINFNM-QVVIWWSGLM 389
Db 304 VMGDGLYPNGLLAIIVL-ISVMLFVIRFISLIFYVFKDGSKKFKQKQLNEILITFGGV 362
Qy 390 RGAVSMALAYNKETRAGHTDVRGNAMITSTIVCLFSTVVFGLMTPKPLIS 440
Db 363 KGTVSLATIFILPPSINNMMFYQSRLLFLTAGVILV-TLVIGIIVLPMIT 412

Search completed: October 26, 2004, 17:17:05
Job time : 42 secs

1	1617	74.2	1617	9	US-09-938-842A-1239	Sequence 1239, Ap
2	1617	74.2	1617	11	US-09-938-842A-1239	Sequence 1239, Ap
3	1149.4	52.8	2136	14	US-10-455-535-1	Sequence 1, Appli
4	837.4	38.4	1915	16	US-10-425-114-20609	Sequence 20609, A
5	821.8	37.7	1968	16	US-10-424-599-58707	Sequence 58707, A
6	797.6	36.6	1620	15	US-10-369-324-38	Sequence 38, Appl
7	797.6	36.6	1620	15	US-10-607-538-37	Sequence 37, Appl
8	794.4	36.5	1621	15	US-10-369-324-37	Sequence 37, Appl
9	794.4	36.5	1621	15	US-10-607-538-37	Sequence 37, Appl
10	719	33.0	2066	14	US-10-455-535-3	Sequence 3, Appli
11	682.6	31.3	1638	15	US-10-409-701-22	Sequence 22, Appl
12	546.2	25.1	1669	17	US-10-437-963-92579	Sequence 92579, A
13	468.2	21.5	1014	16	US-10-425-114-21998	Sequence 21998, A

346 GTTGCCTTGAATC

346 GTTGGTTGAATCTCTTTGTGTGCACCTTCCTTTGTGCTTGTAATTGTTCTTGGTC

61	Db	 GTTGCGTGAATCTCTTTGTTGCACTCTTTGTGCTGTATTGTTCTTTGGTCAATCTTTTG	120
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121	Db	 GAAGAGAAATAGATGGATGAACGAATCCATCACGGCTTGTTGATTGGGCTAGGCACTGGT	180
466	QY	 GTTTACCATTTTGTGTATTAGTAAAGAAAAAGCTCGCATCTTCTCGTCTTTAGTGAAGAAT	525
181	Db	 GTTTACCATTTTGTGTATTAGTAAAGAAAAAGCTCGCATCTTCTCGTCTTTAGTGAAGAAT	240
526	QY	 CTTTTCTTCATATPATCTTTTGGCCACCATTATATCAATGCAAGGGTTTCAAGTAAAAAAG	585
241	Db	 CTTTTCTTCATATPATCTTTTGGCCACCATTATATCAATGCAAGGGTTTCAAGTAAAAAAG	300
586	QY	 AAGCAGTTTTTCGGCAATTCGTGACATATATGCTTTTTTGGTGTGTTGGGCACTAATTT	645
301	Db	 AAGCAGTTTTTCGGCAATTCGTGACATATATGCTTTTTTGGTGTGTTGGGCACTAATTT	360
646	QY	 TCATTGCACAAATCATATCTCTAGGTGTAAACACAGTCTCTTTAAAGAAGTTGACATTCGAAAC	705
361	Db	 TCATTGCACAAATCATATCTCTAGGTGTAAACACAGTCTCTTTAAAGAAGTTGACATTCGAAAC	420
706	QY	 TTTGACTTGGGTGAATATCTTGCTATTTGGTGGCCATATTTGCTGCAACACAGATTCAGTATGT	765
421	Db	 TTTGACTTGGGTGAATATCTTGCTATTTGGTGGCCATATTTGCTGCAACACAGATTCAGTATGT	480
766	QY	 ACACTGCAGGTTCTGAAATCAAGACGAGACACCTTGCTTTACAGTCTTGATTCGGAGAG	825
481	Db	 ACACTGCAGGTTCTGAAATCAAGACGAGACACCTTGCTTTACAGTCTTGATTCGGAGAG	540
826	QY	 GGTGTGTGAATGATGCAACGCTCAGTGTGTGGTCTTCAACGCGAATTCAGAGCTTTGATCTC	885
541	Db	 GGTGTGTGAATGATGCAACGCTCAGTGTGTGGTCTTCAACGCGAATTCAGAGCTTTGATCTC	600
886	QY	 ACTCACCTAAACCAACGAAGTGCCTTTTCAPTCTTTTGGAAACCTTCTGTATTTGTTTCTC	945
601	Db	 ACTCACCTAAACCAACGAAGTGCCTTTTCAPTCTTTTGGAAACCTTCTGTATTTGTTTCTC	660
946	QY	 CTAAGTACCTTGTGTTGCTGTGCACACGGTCTGATAAGTGCGTATGTTATCAAGAGCTA	1005
661	Db	 CTAAGTACCTTGTGTTGCTGTGCACACGGTCTGATAAGTGCGTATGTTATCAAGAGCTA	720
1006	QY	 TACTTTGGAAGGCACTCAACTGACCGAGAGGTTGCCCTTATGATGCTTATGGCGTATCTT	1065
721	Db	 TACTTTGGAAGGCACTCAACTGACCGAGAGGTTGCCCTTATGATGCTTATGGCGTATCTT	780
1066	QY	 TCTTATATGCTTGTGTAGCTTTTCGACTTGGAGCGGTATCCTCACTGTGTTTTTCTGTGTT	1125
781	Db	 TCTTATATGCTTGTGTAGCTTTTCGACTTGGAGCGGTATCCTCACTGTGTTTTTCTGTGTT	840
1126	QY	 ATTGTGATGTCCTAATTACACATGCGCAATATGTAACGGAGAGCTCAAGATAACAAAG	1185
841	Db	 ATTGTGATGTCCTAATTACATGCGCAATATGTAACGGAGAGCTCAAGATAACAAAG	900
1186	QY	 CATACCTTTGCAACTTTGTCAATTTCTTTCGGGAGACATTTATTTTCTTGTATGTTGAAATG	1245
901	Db	 CATACCTTTGCAACTTTGTCAATTTCTTTCGGGAGACATTTATTTTCTTGTATGTTGAAATG	960
1246	QY	 GATGCTTTGGAACATTGACAGTGGAGATCCGTGAGTGACACACGGGAACATCGATCGCA	1305
961	Db	 GATGCTTTGGAACATTGACAGTGGAGATCCGTGAGTGACACACGGGAACATCGATCGCA	1020
1306	QY	 GTGAGCTCAATCTCAATYGGGTCTGGTCAATGTTGGAAAGACAGGGTTCGTTCCGTTA	1365
1021	Db	 GTGAGCTCAATCTCAATYGGGTCTGGTCAATGTTGGAAAGACAGGGTTCGTTCCGTTA	1080
1366	QY	 TCGTTTCTTATCTAACTTTAGCCAAAGAAATCAAAGCGAGAAATCAACTTTAATCATGCAG	1425
1081	Db	 TCGTTTCTTATCTAACTTTAGCCAAAGAAATCAAAGCGAGAAATCAACTTTAATCATGCAG	1140
1426	QY	 GTTGTGATTTTGGTGGTCTGTTCTCATGAGAGGTCGTGTATCTATGGCTCTTGATCAAC	1485

RESULT 2

RESOL 2
US-09-938-842A-1239
: Sequence 1239, Application US/09938842A

; PUBLICATION NO. US20
; GENERAL INFORMATION:

ADDITIONAL INFORMATION: Harry Jeff

APPLICANT: HARPER, JEFF

APPLICANT: Kreps, Joe

; APPLICANT: Wang, Xun

APPLICANT: Zhu, Tong

TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING

TITLE OF INVENTION: SAME AND METHODS OF USE

TITLE OF INVENTION: SAME AND METHODS OF USE

; TITLE OF INVENTION: SAME,
: FILE REFERENCE: SCRIPT1300-3

FILE REFERENCE: SCRIPT300-3
CURRENT APPLICATION NUMBER: USC/0

;; CURRENT APPLICATION NUMBER: US/09/338,811
CURRENT FILING DATE: 2001-08-24

;; CURRENT FILING DATE: 2001-08
 PRIOR APPLICATION NUMBER: US

; PRIOR APPLICATION NUMBER: US 60/227,866
 ; FILING DATE: 2000 08 24

;
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: 113

; PRIOR APPLICATION NUMBER: US 60/264,647

; PRIOR FILING DATE: 2001-01-16

;
PRIOR APPLICATION

;
PRIOR FILING

; NUMBER OF SEQ

; SEQ ID NO 1239

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; LENGTH: 1617
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Query Match

74.2%: score 1617: DB 11: Length 1617:

Query Match	Best Local Similarity	Pred No. 0:	score 1617)
	100.0%	Pred No. 0:	74.2%

Best Local Similarity 100.0%; Pred. NO: 0;
Matches 1617. Conservative 0: Mismatches
Indels 0: Gaps 0:

286 ATGTTGGATTCTCTAGTGTGGAAACTGCCCTCGTTATCGACATCTGATCAGCCTTCTGTG 345

db 1 ATGTTGGATTCTCTAGTGTGAAACTGCCCTTCGTTATCGACATCTGATCACGCTTCTGTG 60

346 GTTGGCTGAATCTCTTTGTTGCACCTCTTTTGTGCTTGTAATTGTTCTTGGTCATCTTTTG 405

Db 61 GTTGGTTGAATCTCTTTGTTGCACTTCTTTGTGCTTGTATTGTTCTTGGTCATCTTTG 120

QY 406 GAAGAGATAGATGGATGAACGAATCCATCACCGCCTTGTGTGATTGGGCTAGGCACCTGGT 465

Db 121 GAAGAGATAGATGGATGAACGAATCCATCACCGCCTTGTTGATGGGCTAGGCACCTGGT 180

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DB	181	GT	TACCA	TTTGT	TGATTAG	TAAAGG	AAAGCT	CGCAT	CTTCT	CGTCT	TTT	TAGT	GAAGAT	240	
QY	526	CT	TTTCT	CAATATA	TC	TTT	TGCCA	CCCAT	TATAT	CAAT	CGAGG	TTT	CAAGT	AAAAAG	585
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QY	586	AAG	CAGT	TTTT	CCGCA	ATTT	CGTGA	CTATAT	TGCT	TTTT	TGGT	CTGT	TGGGA	CTATTAT	645
DB	301	AAG	CAGT	TTTT	CCGCA	ATTT	CGTGA	CTATAT	TGCT	TTTT	TGGT	CTGT	TGGGA	CTATTAT	360
QY	646	TC	TTGCA	CAAT	CA	TATCT	AGGT	TAACA	CACAG	TTCTTT	AAGA	GTG	GACAT	TTCGA	705
DB	361	TC	TTGCA	CAAT	CA	TATCT	AGGT	TAACA	CACAG	TTCTTT	AAGA	GTG	GACAT	TTCGA	420
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DB	421	TT	TGACT	TGGT	GATTA	TATCT	TGCTAT	TTGGT	GCCAT	TATTT	TGCT	GCAC	AGAT	TTCAGT	480
QY	766	AC	ACT	GCA	GGT	TTCT	GAAT	CAAG	CAGAC	ACCT	TTT	TACAG	CTTGT	TATCGG	825
DB	481	AC	ACT	GCA	GGT	TTCT	GAAT	CAAG	CAGAC	ACCT	TTT	TACAG	CTTGT	TATCGG	540
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DB	541	GG	TGTT	GTAAT	GATG	CAAC	CGTCA	GTTG	TGCTTT	CAAC	CGGAT	TCAG	AGCT	TTTGAT	600
QY	886	ACT	CAC	CTTA	AA	CAG	AGCT	GTCTTT	CA	CTTCT	TG	GA	AACT	CTTCT	945
DB	601	ACT	CAC	CTTA	AA	CAG	AGCT	GTCTTT	CA	CTTCT	TG	GA	AACT	CTTCT	660
QY	946	CTA	AGT	AC	CTT	TGCT	TGGT	CTG	CAAC	CGGTCT	GA	TAGT	GGTAT	GTTAT	1005
DB	661	CTA	AGT	AC	CTT	TGCT	TGGT	CTG	CAAC	CGGTCT	GA	TAGT	GGTAT	GTTAT	720
QY	1006	TAC	TTT	TG	GAAG	GC	ACT	CAACT	GCA	CGGAG	GGT	GC	CCCT	TATAT	1065
DB	721	TAC	TTT	TG	GAAG	GC	ACT	CAACT	GCA	CGGAG	GGT	GC	CCCT	TATAT	780
QY	1066	TC	TTAT	TAT	GT	CT	GAG	CTTTT	CG	ACT	TG	AGCG	GTAT	TC	1125
DB	781	TC	TTAT	TAT	GT	CT	GAG	CTTTT	CG	ACT	TG	AGCG	GTAT	TC	840
QY	1126	ATT	GT	GAT	GTCC	CA	TTAC	ATG	CA	TCG	TAAG	CGG	AGAC	CT	1185
DB	841	ATT	GT	GAT	GTCC	CA	TTAC	ATG	CA	TCG	TAAG	CGG	AGAC	CT	900
QY	1186	CAT	AC	CTT	TG	CA	CTTT	GT	CA	TTT	TG	CGG	AGAC	CT	1245
DB	901	CAT	AC	CTT	TG	CA	CTTT	GT	CA	TTT	TG	CGG	AGAC	CT	960
QY	1246	GAT	GC	CT	TG	GA	CA	TG	TG	AGAT	TC	CGT	GAGT	GACA	1305
DB	961	GAT	GC	CT	TG	GA	CA	TG	TG	AGAT	TC	CGT	GAGT	GACA	1020
QY	1306	GT	GAG	CT	CAAT	CT	TAAT	GGGT	CT	GGT	CA	TG	TTG	GA	1365
DB	1021	GT	GAG	CT	CAAT	CT	TAAT	GGGT	CT	GGT	CA	TG	TTG	GA	1080
QY	1366	TC	GT	TTCT	CT	TA	CT	TA	CT	TA	CT	TA	CT	TA	1425
DB	1081	TC	GT	TTCT	CT	TA	CT	TA	CT	TA	CT	TA	CT	TA	1140
QY	1426	GT	TTG	AT	TTT	TGG	TG	CT	CGT	CT	CA	TG	AG	GGT	1485
DB	1141	GT	TTG	AT	TTT	TGG	TG	CT	CGT	CT	CA	TG	AG	GGT	1200
QY	1486	AAG	TTT	TA	CA	AGG	CG	CGG	CA	CAG	AT	TC	AG	CGG	1545
DB	1201	AAG	TTT	TA	CA	AGG	CG	CGG	CA	CAG	AT	TC	AG		

RESULT 3

RESULTS 3
US-10-155-535-1

US-10-155-535-1
; Sequence 1. Application IIS/10155535

; sequence 1, Application US/1015
: Publication No. US20030046739A1

Publication No. US20
: GENERAL INFORMATION:

; GENERAL INFORMATION:
 : APPLICANT: Blumwald Eduardo

APPLICANT: Blumwald, Eduardo

APPLICANT: Apse, Maris

TITLE OF INVENTION: INCREASING SALT TOLERANCE IN PLANTS BY

; TITLE OF INVENTION: EXPRESS
: FILE REFERENCE F2001500007000

; FILE REFERENCE: 529152000720

; CURRENT APPLICATION NUMBER: US/10/155,535

; CURRENT FILING DATE: 2002-05-24

; PRIOR APPLICATION NUMBER: 09/271,584

; PRIOR FILING DATE: 1999-03-18

; PRIOR APPLICATION NUMBER: 60/078,474

; PRIOR FILING DATE: 1998-03-18

; PRIOR APPLICATION NUMBER: 60/116,111

PRIOR FILING DATE: 1999-01-15

; NUMBER OF SEQ ID NOS: 27

; SOFTWARE: Fas

; SEQ ID NO 1

; LENGTH: 2136

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/ LENGTH: 2130
;
; TYPE: DNA

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; LIFE: DNA
; ORGANISM: AN

Query Match	52.8%	Score 1149.4	DB 14	Length 2136
Best Local Similarity	81.5%	pred. No. 3.3e-274		
Matches 1362	Conservative 0	Mismatches 291	Indels 18	Gaps 2
QY	272	AGAGAGAGATAACAATCTTGATTCCTAGTGTGCGAACTGCCTTCGTTATCGACATCTG	331	
Db	353	AAAGAAAGATGACAATGTCGCTCTTTAAACCTCTAAATGCTATCGGTGTCAACTTCTG	412	
QY	332	ATCACGGCTTCGTGGTTCGCTTGAATCTCTTTGTTGCACCTCTTTGTCGTTGATTCGTC	391	
Db	413	ATCACGCATCTGCTTTTCACTTAATCTCTTTGTCGCTTCTATGTGCTTGTATCGTCA	472	
QY	392	TTGCTCATCTTTGGAGAGAGATAGATGGATGAACGAATCAATACCGCCTTGTGTGATG	451	
Db	473	TTGGCCATCTTTGGAGAGAAATCGATGGATAAACGAATCCATCACTGCTTTTATGATG	532	
QY	452	GGCTAGGCACTGGTGTTACCATTTTGTGATTAGTAAAGGAAAAGCTCCGACCTTCTCG	511	
Db	533	GGCTTGGCACTGGTGCTCATATTGTTGATTAGTAGGGGAAAACCTCACATCTCTCTGG	592	
QY	512	TCCTTTAGTGAAGATCTTTCTTCATATCTTTTGGCCACCATTATATTCAATGCAGGGT	571	

Db 593 TCCTTAGTGAAGATCTCTCTTTATATATCTTTTGCCACCAATAATTCATGACGGGT 652
Qy 572 TTCAGTAAAAAGAGCAGTTTTTCGGCAATTTTCGTGACTATATATGCTTTTGGTGTCTG 631
Db 653 TTCAGTAAAAAGAGCAGTTTTTCGGCAATTTTCGTGACTATATATGCTTTTGGTGTCTG 712
Qy 632 TTGGGACTATATTTCTTTCGACAAATCATCTCTAGGTGTAAACACAGTCTCTTTAAGAAAT 691
Db 713 TTGGGACCGTAGTTCTTTTGACCAATATATCTCTAGGTGTAAACACAGTCTCTTTAAGAAAT 772
Qy 692 TGGACATTTGAAACCTTTGACTTTGGGTGATTATCTTGTCTATTTGTTGCGCATATTTGCTGCAA 751
Db 773 TAGACATTTGGACCTTTGACTTTGGGCGATTTCTTTCGAATCGGCGCATATTTGCTGCAA 832
Qy 752 CAGATTCAGTATGTACAGTGTCTGAAATCAAGACGAGACACCTTTGCTTTACAGTC 811
Db 833 CCGACTCTGTATGCACACTACAGGTCTCAATCAAGATGAGACACCTTTGCTTTACAGTC 892
Qy 812 TTGTATTTGGAGAGGGTGTGTGAATGATGCAAGCTCAGTTGTGTCTTCAACCGCATTC 871
Db 893 TTGTATTTGGAGAGGGGTGTGTGAATGATGCAAGCTCAGTTGTGTCTTCAATGCTATTC 952
Qy 872 AGAGCTTTGATCTCACTCACCTAAACCAAGAGCTGCTTTTCATCTTCTTGGAAACTTCT 931
Db 953 AGAGTTTGAACCTCACCACTTAAACCATGAAGCAGCTTTTCAATTTCTTGGGAACCTTTT 1012
Qy 932 TGTATTTGTTCTCTAAGTACCTTGT 991
Db 1013 TTTATCTGTTCTCTTGAGCACCGGACTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1072
Qy 992 TTATCAAGAGCTATCTTTTGGAGGCACTCACTGACCGAGAGGTGCTTCCCTTATGATGC 1051
Db 1073 TCATCAAGAACTGTAATTTGGAAGGCACTGATGATCGAGAGTGTGCTTCAATGATGC 1132
Qy 1052 TTATGGCTATCTTTCTTATATGCTTGTGAGCTTTTCGACTTGTGAGCGGTATTCCTCACTG 1111
Db 1133 TTATGGCTATCTTTCTTATATGCTTGTGAGCTTTTCGACTTGTGAGCGGTATTCCTCACTG 1192
Qy 1112 TGTATTTGTTGTTATGTTGATGTCCTTATACATGATGCAAGTGTACGAGAGCTCAA 1171
Db 1193 TAATTTCTGTGGGATTTGTATGTCCTTATACATGATGCAAGTGTACGAGAGCTCAA 1252
Qy 1172 GAATAACAACAAGCATACCTTTTGCACTTTGTCTATTTCTTGTGCGGAGACATTTATTTCT 1231
Db 1253 GAATTTACTACAGCAAGCTTTGTCTTGTCTTGTCTGCTGAGACTTTTATTTTCT 1312
Qy 1232 TGTATTTGGAATGGATGCTTGGACATGTGACATGTGAGATTCCTGTGAGTGCACACCGG 1291
Db 1313 TCTACGTTTGAATGGATGCTTGGACATGTGAGATTCCTGTGAGTGCACACCGG 1372
Qy 1292 GAACATGATCGAGTGCATCAATCTTAATGCGTCTGTGATGCTTGTGAGAGCAGGT 1351
Db 1373 GGACATGATGCTGAGTGCATCAATCTTAATGCGTCTGTGATGCTTGTGAGAGCAGGT 1432
Qy 1352 TCGTCTTTCCGTTATCTGTTCTTATCTTAATGCGGAGAGATCAAAAGCGAGAGAGTCA 1411
Db 1433 TTGCTTTTCCCTTTTCTTCTTATCAACTTACGAGAGGATCAGAGCGAGAGAGTCA 1492
Qy 1412 ACTTTAACATGAGGTTGTGATTTGGTGTCTGCTTCAATGAGAGTGTCTATCTATGG 1471
Db 1493 GCATCAAGCAGCAAGTTGTGATCTGTGGCTGTCTTAATGAGAGTGTCTATCTATGG 1552
Qy 1472 CTCCTTGATACACAGTTTACAGGCGCGGACACAGATGCTACGCGGAATGCAATCA 1531
Db 1553 CTCCTTGATACACAGTTTACAGGCGCGGACACAGATGCTACGCGGAATGCAATCA 1612
Qy 1532 TGATCAGGAGTACGATTAATCTGCTGCTTTTGTGACAGTGTGTTTGGTATGCTGACCA 1591
Db 1613 TGATTTACAGTACATTAACCGTCTGCTTTTGTGACAGTGTGTTTGGTATGCTGACCA 1672
Qy 1592 AACCACTATAGCTTACCTATTAACCGCACCAGAACGC-----CACACAGCATGT 1642
Db 1673 AACCACTATAGCTTACCTATTAACCGCACCAGAACGC-----CACACAGCATGT 1732

Qy 1643 TATCTGATGACAAACCCCAAAATCCATATCCCTTTGTTGG-----ACCAAG 1693
Db 1733 TATCGGACGATAGCACTCCGAAATCAATCCATTCGGTCTCCGTGTTGAACAGCTAG 1792
Qy 1694 ACTCGTTCATTGAGCCTTCAGGAAACCAATGTGCTCGGCTGACAGTATAGTGGCT 1753
Db 1793 ATTCAITTTGAGTTTACCTTGGGAGCCACAGAGCGTGCACCAACCAAGCCTTCGAGGTT 1852
Qy 1754 TCTTTGACACGGCCACTTCGAACCGTGCATTACTACTGAGACAAATTTGATGACTTCCTTCA 1813
Db 1853 TCTTCATGCGCCCAACACGAGCTGTCCACTTATCTACTGAGACAGATTTGATGATGCTTCA 1912
Qy 1814 TGGACCCGCTCTTTGGAGGTCTGTGGCTTTGTACCCCTTTGTTCAGGTTCTCCAACTGAGA 1873
Db 1913 TGGCTCTGTTGTTGGTGTGCGGATTCGTTCCCTTTGTCCCTGTTCTCCGACTGAGA 1972
Qy 1874 GAAACCCCTCTGATCTTAGTAAAGCTTGAGGTAACTGGGAGAAAGCTT 1924
Db 1973 GAAGCAGCCATGATCTTAGTAAACCTTTGAGGAGAAAGATATATAGAACTT 2023

RESULT 4

US-10-425-114-20609
; Sequence 20609, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 20609
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3242-431-Al2_FLI
US-10-425-114-20609

Query Match 38.4%; Score 837.4; DB 16; Length 1915;
Best Local Similarity 71.2%; Pred. No. 7; 7e-197;
Matches 1143; Conservative 0; Mismatches 441; Indels 21; Gaps 2;

Qy 294 TTCTCTAGTGTGAAACTGCGCTTCGTTATCGACATCTGATCACGCTTCTGTGGTTGCGTT 353
Db 2 TTCGTGTTTCAAAATTTGAAACGTTATCCACCTCAGACCATGCTCCGTGGTCTCCAT 61
Qy 354 GAATCTCTTTGTGCACTTCTTTGTGCTGTGATGTTCTTGTGTATCTTTTGGAGAGAA 413
Db 62 GAATCTTTTGTGGCACTTCTTTGTGTTGTATTGCTCTTGTGCTTCTTTGAGAGAA 121
Qy 414 TAGATGATGAACGATCCATCCACCGCTTGTGATTCGGCTAGGCACTGTGTTTACCAT 473
Db 122 TCGATGATGAACGAGTCTATCAGTCCCTTTTGTGTTGTGTTTGTGCTGCGGTAGTCA 181
Qy 474 TTTGTTGATTAGTAAAGGAAAGCTCGCATCTTCTCGTCTTTTGTGAGATCTTTTCTT 533
Db 182 TTTGCTGTTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 241
Qy 534 CATATATCTTTTGGCAACCATTTATTTCAATGACAGGTTTCAAGTAAAAAGAGCAGTT 593
Db 242 TATATATCTTCTACCACTTATATTTCAATGCCGGTTTTCAGGTGAAAGAGAGCAGTT 301
Qy 594 TTTCCGCAATTCGTTGACTATATGCTTTTTCGTTGCTGTTTGGGACTATTTATTTCTTGCAC 653

QY 772 CAGGTTCTGAATCAAGACGAGACACCTTTGCTTTACAGTCTTTGATTCGGAGGGTGT 831
Db |||||
QY 496 CAGGTGCTAAATCAGGATGAGACACCTTTGCTGTACAGTCTTGTATTTGGGAGGGTGT 555
Db |||||
QY 832 GTGAATGATGCAACGTCAGTGTGGTCTTCAACGCGAATCAGAGCTTTGATCTCACTCAC 891
Db |||||
QY 556 GTGAATGATGCTACATCAGTGGTCTTTTCAATGCAATCCAAAGCTTTGACCTCAACCAA 615
Db |||||
QY 892 CTAAACACGAGCTGCTTTTCATCTCTTGGAACTCTTGTATTTGTTTCTCTCAAGT 951
Db |||||
QY 616 ATTGACTCTTCAATTTGCTGTACACTTTTGGGAAATTTCTGTATCTATTATTGCAAGC 675
Db |||||
QY 952 ACCTTGTCTGTGCTGCAACCGGCTCTGATAGTGGTATGATATCAAGAAGCTATATTT 1011
Db |||||
QY 676 ACAATGTTGGAGTTTGCACAGGCTCTACTAGTCTTACATATTAAAGAGCTACATT 735
Db |||||
QY 1012 GGAAGGCACTCACTGACCGAGAGTGGCCCTTATGATGCTTATGGCGTATCTTCTTAT 1071
Db |||||
QY 736 GGCAGGCACTCTACAGATCGTGAGGTGCTCTTATGATGTTAATGGCATACCTGTCTTAC 795
Db |||||
QY 1072 ATGCTTGTGAGCTTTTCGACTTTCAGCGGTATCTCTGCTGTTTCTTCTGTTGTTGTTG 1131
Db |||||
QY 796 ATGCTTGTGATTAATGATGTTCTGAGTGGCACTCTCACTGATTTCTTTTGGTATGTT 855
Db |||||
QY 1132 ATGTCCCAATTACATGCGCAATGTAAACGGAGAGCTCAAGATAAACAACAAGCATACC 1191
Db |||||
QY 856 ATGTCTCATTTACTCGCATTAACGTCGACCGAGAGTTCAAGAACTCACTACCAAGCAITCT 915
Db |||||
QY 1192 TTTGCAACTTTGTCAATTTCTTGGGAGACATTTATTTTCTTGTATGTTGGAATGATGCC 1251
Db |||||
QY 916 TTTGCAACTTTGTCTTTTGTGCTGAGATCTTTATCTTCTTATGTTTGGTATGATGCC 975
Db |||||
QY 1252 TTGGCATTGTCAAGTGTGAGATCCGTGAGTGCACACCGGGAACATCGATCGAGTGAGC 1311
Db |||||
QY 976 TTGACATTTGAAAATGAAATTTGTGAGTATGATGCCCTGGAAACATCTGTAGCACTAGT 1035
Db |||||
QY 1312 TCAATCTTAAATGGGTCTGGTCATGTTTGGAAAGCAGAGTTCGCTTTTCCGTTATCGTT 1371
Db |||||
QY 1036 TCAGCTTATTTCTTGTCTAATTTCTTGGAGAGCAGCTTTGTTTCCCTTATCTCTTC 1095
Db |||||
QY 1372 CTATCTAATCTAGCAGAAAGAAATCAAGCGGAGAAATCAACTTTAAATGATGAGTTGTG 1431
Db |||||
QY 1096 ATATCCAACTTTGGCTTAAATAATCAAAATGAGAAATCAGCTTCAGACAGCAAGTGATC 1155
Db |||||
QY 1432 ATTTTGTGCTGTGCTCATGAGAGTGTCTATCTATCTATGCTCTTGCATACAAAGTTT 1491
Db |||||
QY 1156 ATTTGGTGGGTGGCTTATGAGAGTGTCTGTTTCAATCGCACTTGCATATATCAGTTC 1215
Db |||||
QY 1492 ACAAGGGCGGGCACACAGATGTACCGGGAATGCAATCATGATCAGAGTACGATAACT 1551
Db |||||
QY 1216 ACCATGTCGGGGCACACTTCACTGCGAAGCAATGCAATCATGATCACAAGCACCATCACT 1275
Db |||||
QY 1552 GTCTGCTTTTGTAGACAGTGGTGTGTTGATGCTGACAAACCACTATAGCTACCTA 1611
Db |||||
QY 1276 GTTGTGCTTTTTCAGCACAGTGTGTTGCTCTGTTGACTAAGCCACTCATAAGGCTTTTA 1335
Db |||||
QY 1612 TT-----ACCGCACAGACGCCACCAAGCATGTTTCTGATGACACACACC 1659
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QY 1336 CTGCCCCATCTCCATCATCAATAAGAACTAAGCAATCAAGATCAAGATCCATCTACT 1395
Db |||||
QY 1660 CCAAAATCCATATATCCCTTTTGTGGACCAAGACTCGTTCAATTGAGCTTCAGGAA- 1718
Db |||||
QY 1396 CCAAGTCCAAATCAGTCACTATCCCACTTTCTGGGAGTGCCCAAGAACTCTGAAGTTGAT 1455
Db |||||
QY 1719 -----CCAAATGTGCTCGGCTGACAGTATACGTGGCTTTCTTGACCGGCCACT 1770
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QY 1456 ATCGATGGCCATGATATTCATCGTCCAGCAGTATTCGTGGCTTGTCTTACGACTCCAA 1515
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QY 1771 CGAACCGTGCTATCTACTGGAGACAAATTTGATGACTCCTTTCATGCGACCCCTCTTTGGA 1830
Db |||||
QY 1516 CACATGTTCACTGTTTGTGGGTAGTTGATGATGCAITTCATGGTCTCTTGTGTGT 1575
Db |||||
QY 1831 GGTGCTGGCTTTGTACCCCTTTGTTCCAGTTCCTTCAACTGAGAGAAA 1877

Db 1576 GGCAGGGGTTTTGTTCTCTGTAGAACCTGGCTCCAACTGAACGTAA 1622
|||
RESULT 6
US-10-369-324-38
; Sequence 38, Application US/10369324
; Publication No. US2003022121A1
; GENERAL INFORMATION:
; APPLICANT: ROMMENS, CAIUS
; APPLICANT: YE, JINGSONG
; APPLICANT: MENENDEZ-HUMARA, JAIME
; APPLICANT: YAN, HUA
; APPLICANT: RICHARD, CRAIG
; APPLICANT: BRINKERHOFF, W. LEIGH
; APPLICANT: SMORDS, KATHY M. M.
; TITLE OF INVENTION: PRECISE BREEDING
; FILE REFERENCE: 058951/0162
; CURRENT APPLICATION NUMBER: US/10/369,324
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/357,661
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: 60/377,602
; PRIOR FILING DATE: 2002-05-06
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 38
; LENGTH: 1620
; TYPE: DNA
; ORGANISM: Solanum tuberosum
US-10-369-324-38
Query Match 36.6%; Score 797.6; DB 15; Length 1620;
Best Local Similarity 69.3%; Pred. No. 5.2e-187;
Matches 1101; Conservative 0; Mismatches 484; Indels 3; Gaps 1;
QY 287 TGTGGAATCTCTAGTGTGCAAACTGCCCTGCTTATCGACATCTGATCACGCTTCTGTGG 346
Db 11 TGCTGGCTTCTCTCTTTCCAAAACCTGGGCTCTTTGGGTACTTCAGATCATGCTTCTGTG 70
QY 347 TTGCGTTGAATCTCTTTGTGCACTCTTTGCTGTGTTGTTCTTGGTTCATCTTTTGG 406
Db 71 TATCCATCAACCTCTTTGTGGCACTCCTTTGTGCTTGCAATCATCTGTTCTCTTGG 130
QY 407 AAGAGATAGATGATGAACGAATCCATCACCGCTTGTGATTGGCTAGGCACTGTG 466
Db 131 AGGAGACCGCTGGGTAAATGAGTCCATTACTGCGCTCATATTTGTTGTACAGGAG 190
QY 467 TTACCATTTTGTGATGATGAAGAAAGAAAGCTCGCATCTCTCGTCTTTAGTGAAGATC 526
Db 191 TGGTTATCTTCTGCTGTAAGTGTGGAAGAACTCACACCTTCTGGTTTTCAGTGAAGATC 250
QY 527 TTTTCTTCATATATCTTTTGGCCACCCTATATATTAATCAATGCAAGGTTTCAAGTAAAGAA 586
Db 251 TCTTTTTCATATATGATCTTCTCCCATCATATTTAATGAGGTTTTCAGTAAAGAA 310
QY 587 AGCAGTTTTTCCGCAATTTCTGTGATTAATGCTTTTGTGCTGTTGGGACTATATTT 646
Db 311 AGCAATTTTCTGTGAACCTTCACTAATATGATGTTTCGGAGCCATTCGTCCTGCT 370
QY 647 CTGCACAATCATATCTCTAGTGTAAACAGATCTTTTAAAGAGTTGACATTCGAACCT 706
Db 371 CATGTGCCATTTATCATTTAGTGTCAATTTCAAACTTTCAAGAGTTGACATTTGAATTC 430
QY 707 TTGACTTGGGTGATTTATCTTGTATTTGGTGCATATTTGCTGCAACAGATTCAGTATGTA 766
Db 431 TAGATATTTGGGATTTATCTTGAATTTGAGCAATTTGCTGCCACAGATTCGCTGCA 490
QY 767 CACTCAGGTTTCTGAATCAAGACGAGACACCTTTGCTTTACAGTCTTGTATTCGGAGAG 826
Db 491 CATTGAGGTCCTACATCAGGATGAGACACCCCTCTTTTACAGTCTTGTATTTGGAGAG 550
QY 827 GTGTTGTGAATGATGATCAACGTCAGTGTGTTGCTTCTCAACGCGATTCAGAGCTTTGATCTCA 886

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Db 551 GAGTTGTAATGATGCTCATCGTGGTGTCTTTCAATGCTATTCAAAACCTTGACCTTA 610
QY 887 CTCACCTAAACCAAGAGCTGTTTTCATCTCTTGGAACTCTTGTATTGTTTCGCC 946
Db 611 CGAGGCGAATCCAGTAGCCCTCAGTTTCCCTTGGCAATCTCTTATCTGTCTCTTG 670
QY 947 TAAGTACCTTGGCTGGTCTGCAACCGCTGCTGATAAGTGGCTATGTTATCAAGAGCTAT 1006
Db 671 CTAGACATTTACTGGAGCAGAACTGCTCTTCTTAGTGCTTACATATCAAGAGCTGT 730
QY 1007 ACTTTGGAAGCACTCAACTGACGAGAGTTGGCTTATGATGCTTATGGCGTATCTTT 1066
Db 731 ATTTTGGCAGCACTCCACAGATCGTAGGTTGGCTTATGATGCTCATGCTTACTTAT 790
QY 1067 CTTATATGCTTGTGAGCTTTTTCGACTTGAGGGTATCTCTCAGTGTGTTTTCGTGGTA 1126
Db 791 CATACATGCTGGCTGAACATACTTATTTAGTGGGATTTCTCACTGTATTTTCTGTGTA 850
QY 1127 TTGTGATGTCCATTACACATGGCACAATGTAACGGAGAGCTCAAGATAACAACAAGC 1186
Db 851 TTGTAATGTCTCAATACATGGCACAATGTGACGGAGAGTTCAAGAGTCACTACAAGC 910
QY 1187 ATACCTTTGCACTTTGTCTATCTTCTGGGAGACATTTATTTCTTGTATGTTGGAATGG 1246
Db 911 ACGCTTTTGAACATTTGTCAATTTCTGAGAGACTTTTCTCTTCTATGTCGGCATGG 970
QY 1247 ATGCTTTGGACATGACAAGTGGAGATCCGTGAGTGACACACCGGAGACATCGATCGAG 1306
Db 971 ATGCTTTGGATATCGAAGTGGAAATTTGTTGGTGACAGCGCTGGGATTAATCAATTTCCG 1030
QY 1307 TGAGCTCAATCTTAATGGGCTGTGTCATGTTGGAAGAGAGCGCTTCTCTTCCGTTAT 1366
Db 1031 TGAGTTCAATACTGATGGGATTAATCTGCTGGGAGAGCTGCTTTGTTTTCATAT 1090
QY 1367 CGTTTCTATCTACTTAGCCAAAGAAATCAAGCGAGAGAAATCAACTTTAATCATGCGAG 1426
Db 1091 CATTCCTCTCAACTTAATGAAGAAATCCCTCGGAGCAAAATTAACCTTTAGGCGAGCAAG 1150
QY 1427 TTGTGATTTGGTCTGCTGCTCATGAGAGTCTGTATCTATGGCTCTTGATCAACA 1486
Db 1151 TGATAATATGGTGGCGAGGTTTGATGAGAGCGCAGTGTCCATGGCACTGGCATATAATA 1210
QY 1487 AGTTTCAAGGGCGGSCACACAGATGTACGGGGAATGCAATCAUGATCACGAGTACGA 1546
Db 1211 AGTTCACTGCTGGGACACACTCAACTGACGAGCAATGCAATAATGATTTACGAGCAGA 1270
QY 1547 TAACTGTCTGTTTTAGCACAGTGTGTTTGGTATGCTGACCAACCACTCATAGCT 1606
Db 1271 TAAACCATGTTCTATTACGACACAATGGTATTGCGTTTAAATGACAAAACCCCTTATAAGTC 1330
QY 1607 ACCTATTACCGCACCAAGCGCCACACAGCATGTTATCTGATGACACACCCCAAT 1666
Db 1331 TCTGCTGCCACACAGAGCAATGAGTACAGTGTCATCAGGTGCAATATCTCCAAAGT 1390
QY 1667 CCATACATATCCCTTTTGTGGAC---CAAGACTCGTTTCAFTGAGCCTTCAGGGAACACA 1723
Db 1391 CTCTAACAGCCCCACTCTAGGCGAGTCGAGAGACTCTGAGTTGATTTAAATGTTCCAG 1450
QY 1724 ATGTGCTCGGCTGACAGTATACGTGGCTTTTGTGACAGGCCCACTCGAACCCTGCAT 1783
Db 1451 ATCTTCTCCACCAAGTTTGGAGATGCTACTTACCGCACCAAGTCATAAAGTGCATC 1510
QY 1784 ACTACTGGAGACAATTTGATGACTCTCTCATGGACCGCTTTGAGGTCGTGGCTTTG 1843
Db 1511 GGTACTGGCGAAGTTTGACATGCAATCATGGCCCTATGTTTGGTGGTGGGATTTG 1570
QY 1844 TACCCCTTTGTTCCAGGTTCTCCAACTGA 1871
Db 1571 CTCTCTCTGCCCTGTTCTCCAAACCGA 1598
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RESULT 7

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US-10-607-538-38
; Sequence 38, Application US/10607538
; Publication No. US20040107455A1
; GENERAL INFORMATION:
; APPLICANT: ROMMENS, CAIUS
; APPLICANT: YE, JINGSONG
; APPLICANT: HUMARA, JAIME M.
; APPLICANT: YAN, HUA
; APPLICANT: SWORDS, KATHY
; TITLE OF INVENTION: PRECISE BREEDING
; FILE REFERENCE: 058951/0167
; CURRENT APPLICATION NUMBER: US/10/607,538
; PRIOR FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: 10/369,324
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/357,661
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: 60/377,602
; PRIOR FILING DATE: 2002-05-06
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: Patent In Ver. 3.2
; SEQ ID NO 38
; LENGTH: 1620
; TYPE: DNA
; ORGANISM: Solanum tuberosum
US-10-607-538-38
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Query Match 36.6%; Score 797.6; DB 17; Length 1620;
Best Local Similarity 69.3%; Pred. No. 5.2e-187;
Matches 1101; Conservative 0; Mismatches 484; Indels 3; Gaps 1;

QY 287 TGTGGATCTCTAGTGTGAAACTGCTTGGTTATCGACATCTGATCAGCTTCTGTGG 346
Db 11 TGTGGCTTCTCTGTTTCCAAAACCTGGGCTCTTTGGGTACTTTCAGATCATGCTTCTGTG 70
QY 347 TTGCTTGAATCTCTTGTGTCACCTCTTTGCTGCTGTATGTTCTTGGTCACTTTTGG 406
Db 71 TATCCATCAACCTCTTTGTGGCCTCTCTTGTGCTTGCATCATCTGTCATCTCTGTG 130
QY 407 AAGAGAAATGATGATGAACGAATCCATCACCCGCTTGTGTTGGGCTAGGCACTGTG 466
Db 131 AGGAGAACCGCTGGTTAATGAGTCCATTAATGCTCCCTCATTAATGTTGTGTACAGGAG 190
QY 467 TTACCAATTTTGTGATGATTAAGGAAAAGCTCGCATCTCTCGTCTTTTGTGTAAGATC 526
Db 191 TGGTTATCTGCTCGTAAGTGTGGAAAGAACTCACACCTTCTGTGTTTTCAGTGAAGATC 250
QY 527 TTTTCTTCATATATCTTTTGGCCACCATATATTCATGCGGGTTTCAAGTAAAGAAAGA 586
Db 251 TCTTTTTCATATATGATCTCTCCCAATCATATTTAATGAGGGTTTCAGGTAAAAAGA 310
QY 587 AGCAGTTTTTCCGCAATTTTGTGACTTATGCTTTTGTGCTGTTGGGACTATTATTT 646
Db 311 AGCAATTTTTCGTAACCTTCATTACTATAATGATGTTTCGAGCCATTTGTCCTGTCT 370
QY 647 CTTGCAATCATATCTCTAGGTGTAACACAGTTCCTTTAAGAGTTTGGACATTTGGAACCT 706
Db 371 CATGTGCCATTTATCATTTAGGTGCAATTTCAAACTTTCAAGAAAGTTGGACATTTTTC 430
QY 707 TTGACTTGGTGTATATCTTGTATTTGTCATATTTGTCATATTTGCTGCAACAGATTTCAGTATGA 766
Db 431 TAGATATTTGGGATTTATCTTGAATTTGGAGCAATATTTTCTGCCACAGATTTCCGCTCGCA 490
QY 767 CACTGAGGTTCTGAATCAAGACGAGACACCTTTTGTCTTTTACAGTCTTTGATTCGGAGAG 826
Db 491 CATTCAGGTCCTACATCAGGATGAGACACCCCTCTTTTACAGTCTTTGATTTGGAGAG 550
QY 827 GTGTTGTGAATGATGCAAGCTCAGTTGGTCTTCAACGCGATTTCAGAGCTTTGATCTCA 886
Db 551 GAGTTGTAATGATGCTACATCGGTGGTGTCTTTCAATGCTATTCAAAACCTTTGACCTTA 610
QY 887 CTCACCTAAACCAAGAGCTGCTTTTTCATCTCTTCTGGAAACTCTTGTATTTGTTCTCC 946
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Db 611 CGAGCGTGAATCCAGATATAGCCCTCAGTTTCCTTGGCAACTTCTTCTATCTGTTCTTG 670
QY 947 TAAGTACCTTGTGTTGGTGTGCAACCGGTCTGATAGTGGTATGTTTATCAAGAGCTAT 1006
Db 671 CTAGCACTTTACTGGGAGGAGAACTGCTCTCTTAGTGTTCATTTATCAAGAGCTGT 730
QY 1007 ACTTTGAAGGCACTCAACTGACCGAGAGTGTGCTTATGATCTTATGCGGTATCTTT 1066
Db 731 ATTTTGGCAGCATCCACAGATCGTGGGTTGCCCCATGATGCTCATGGCTTACTTAT 790
QY 1067 CTTATATGCTGTGAGCTTTTTCACCTTGGAGCGGTATCCTCACATGTTGTTTTCGTGTA 1126
Db 791 CATACATGCTGGCTGAATCTTCTATTTAGTGGATCTTCACTGTATTTTCTGTGTA 850
QY 1127 TTGTGATGTCCATACACATGGCACATGTAAAGGAGAGCTCAAGATTAACACAAAGC 1186
Db 851 TTGTAATGTCTCAATACACTTGGCACAAATGTGACCGAGAGTCAAGAGTCACTCAAGGC 910
QY 1187 ATACCTTTGCAACTTTGTCACTTCTTGGGAGACATTTATTTCTTGTATGTTGGAATGG 1246
Db 911 ACGTTTTGCAACTTTGTCACTTCTTGGGAGAGCTTTCCTCTTCTTATGTCGCAATG 970
QY 1247 ATGCTTTGGACATTCACAAAGTGGAGATCCGTGAGTGACACACCGGAAATCGATGCGAG 1306
Db 971 ATGCTTTGGATATCGAAGTGGAAATTTGTTGGTGACAGGCTGGAATTAACAATTCG 1030
QY 1307 TGAGCTCAATCCTTAATGGCTGTGGTATGTTGGAAGAGAGCGTTCGTCTTTTCGTTAT 1366
Db 1031 TGAGTTCAATACTGATGGGATTAATCTTGTGTTGGGAGAGCTGSCCTTTGTTTTCATAT 1090
QY 1367 CGTTCTATCTAACTTAGCCCAAGAGAAATCAAGCGAGAAATCAACTTTAACTATGCAAG 1426
Db 1091 CATCTTCTCAACTTAATGAGAAATCCTCGGACCAAAATTAACCTTTAGGCGAGAG 1150
QY 1427 TTGTGATTTGGTGTCTGCTCTCATGAGAGTGTGTAATCTATGAGCTTTGATACAA 1486
Db 1151 TGATAATATGTGGGAGGTTTGATGAGAGGCGAGTGTCCATGAGCACTGGCATATAA 1210
QY 1487 AGTTTACAGGCGCGGACACACAGATGTACGGGGAATGCAATCATGATCAGTACGA 1546
Db 1211 AGTTCACTCGTGGGGGACACATCAACTGCAGGCAATGCAATATGATTAACGACGA 1270
QY 1547 TAACTGTCTGCTTTTATGACAGTGTGTTTGGTATGCTGACCAAAACCACTCATAGCT 1606
Db 1271 TAACTATGTTCTTATCAGCAATGTTATCGGTTTAAATGACAAAACCCCTTAAGTC 1330
QY 1607 ACCTATTACGACACAGAAAGCCACACAGAGCATGTTATCTGATGACAAACCCCAAAAT 1666
Db 1331 TCCTGCTGCCACACAGAGGCAATGAGTACAGTGTCTATCAGGTGCAAAATCTCCAAAGT 1390
QY 1667 CCAATACATATCCCTTTGTTGGAC---CAAGTCTGTTTCTATGAGCCTTCAGGGAACCA 1723
Db 1391 CTCTAACAGCCCACTCTTAGGAGCTGAGAGGACTCTGAAGTTGAATGTTTAAATGTTCCAG 1450
QY 1724 ATGTGCTCGGCTTGACAGTATACGTGGCTTTTGACACGGCCCACTCGAAACCGTGCAT 1783
Db 1451 ATCTTCTTCAACCAAGTTTGAAGTCTACTTACCGCAACCAAGTCAATGAAGTGCATC 1510
QY 1784 ACTACTGAGACAAATTTGATGACTCTTCTATGCGGACCGCTCTTTGAGAGTCTGCGCTTG 1843
Db 1511 GGTACTGGCGCAAGTTTGACAGTGCATTCATGCGCCCTATGTTTGGTGTGCGGGATTG 1570
QY 1844 TACCCCTTTGTTCCAGGTTCTCCAACTGA 1871
Db 1571 CTCTCTCTGCGCTGTGTTCTCCAAACGGA 1598

RESULT 8

US-10-369-324-37

; Sequence 37, Application US/10369324
; Publication No. US20030221213A1
; GENERAL INFORMATION:
; APPLICANT: ROMMENS, CAIUS

; APPLICANT: YE, JINGSONG
; APPLICANT: MENENDEZ-HUMARA, JAIME
; APPLICANT: YAN, HUA
; APPLICANT: RICHARD, CRAIG
; APPLICANT: BRINKERHOFF, W. LEIGH
; APPLICANT: SWORDS, KATHY M. M.
; TITLE OF INVENTION: PRECISE BREEDING
; FILE REFERENCE: 058951/0162
; CURRENT APPLICATION NUMBER: US/10/369,324
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/357,661
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: 60/377,602
; PRIOR FILING DATE: 2002-05-06
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 37
; LENGTH: 1621
; TYPE: DNA
; ORGANISM: Solanum tuberosum
US-10-369-324-37

Query Match 36.5%; Score 794.4; DB 15; Length 1621;

Best Local Similarity 69.2%; Pred. No. 3.3e-186; Indels 3; Gaps 1;
Matches 1099; Conservative 0; Mismatches 486;

QY 287 TGTGGATTTCTCTAGTGTGCAAACTGGCTTCGTTATGACATCTGATCAGCTTCTGTGG 346
Db 11 TGCTGGCTTCTCTGTTTCCAAAACCTGGCTCTTTGGGTACTTCAGATCATCTCTGTGG 70
QY 347 TTGCGTTGAATCTCTTTGTGTCATCTTTGTGCTGTGTTATGTTCTTGGTCACTTTTGG 406
Db 71 TATCCATCAACCTCTTTGTGCACTCCTTTGTGTCATCATTTGTCATCTCTTGG 130
QY 407 AAGAGATAGATGATGAACGAATCCATCACCGCTTCTTGTATGGGTAGGCACTGTGG 466
Db 131 AGGAGAACCGCTGGGTAAATGAGTCCATTACTGCCCTCATTAATGTTGTTGTACAGAG 190
QY 467 TTACCATTTTGTGATTAGTAAAGGAAAAAGCTCGCATCTTCTGCTCTTTAGTGAAGATC 526
Db 191 TGGTATCTTCTGCTCGTAAGTGGTGAAGAGCTCACACCTCTGTTTTTCACTGAAGATC 250
QY 527 TTTTCTTCATATATCTTTTGGTCCACCCATTAATTAATGCAAGGTTTCAAGTAAAAAGA 586
Db 251 TCTTTTTCATATATGTAATCTCTCCATCATATTAATGCAAGGTTTCAAGTAAAAAGA 310
QY 587 AGCAGTTTTCGCAATTTGCTGACTATTTATGTTTGGTCTGCTTTGGGACTATTTATTT 646
Db 311 AGCAATTTTTCGTAAACTTCATTACTATAATGATGTTTGGAGCCATTGGTACCTTGGTCT 370
QY 647 CTTCACCAATCATATCTCTAGTGTAAACACAGTCTTTTAAAGAAAGTTGACATTTGAACCT 706
Db 371 CATGTGCCATTAATCATTTAGTGTCCATTCAAACTTTCAAGAAAGTTGACATTTGAATTC 430
QY 707 TTGACTTGGGTGATTAATCTTGTGTCATATTTGCTGCAACAGATTGCTGCAAGATTGATGTA 766
Db 431 TAGATAATTTGGGGAATATCTTGCATTTGGAGCAATATTTGCTGCCACAGATTCCGCTTGA 490
QY 767 CACTGCAAGTCTGATCAAGACGAGACACCTTTCTTTTACAGTCTTCTTATTCGGAGAGG 826
Db 491 CATTCGAGTCTCTACATCAGGATGAGACACCCCTCTTTTACATCTTGTATTTGGAGAG 550
QY 827 GTGTTGTGAATGATGCAACAGTGTGGTCTTCAACCGGATTCAGAGCTTTGATCTCA 886
Db 551 GAGTTGTAATGATGCTACATCGGTGGTGTCTTTCAATGCTATCAAAAACCTTCGACCTTA 610
QY 887 CTCACCTAAACCAAGAGCTGTTTTCATCTTCTTTGGAAACCTTCTGTTATTTGTTCTCC 946
Db 611 CGAGCATGAATCCCAAGTATAGCCCTCAGTTTCTTTGGCAACTTCTTCTATCTTGTCTTGG 670
QY 947 TAAAGTACCTTGTCTGTTGCTGCAACCGGTCTCATTAAGTCCGTATGTTTATCAAGAGCTAT 1006
Db 671 CTAGCACTTTACTGGGAGCAGGAATGTTGTTCTTCTTAGTCTTACATTAATCAAGAGCTAT 730

1007 ACTTTGGAAGGCACTCAACTGACGAGAGGTTGCCCTTATGATCCTTATGCGGTATCTTT 1066
Db |||||
731 ATTTTGGCAGGCACTCCACAGATCGTAGGTTGGCTTATGATCCTATGCGCTTACTTAT 790
Qy |||||
1067 CTTATATGCTTGTGAGCTTTTTCGACCTTATGAGCGGTATCCTCACCTGTGTTTTCTGTGGTA 1126
Db |||||
791 CAATCTTGTCTGGCGGAATTAATCTATTGAGTGGGATTCACCGTCTTTTCTGTGGTA 850
Qy |||||
1127 TTGTGATGTCCTCATACATCGGACATGTAACGGAGAGCTCAAGAAATACAAAGG 1186
Db |||||
851 TTGTAATGTCTCACTACATTTGGCAAAATGTAACGGAGGTTCAAGAGTCACTACAAGG 910
Qy |||||
1187 ATACCTTTGCAACTTTCTCATTTCTTGGGAGACATTTATTTCTTGTATGTTGGATGG 1246
Db |||||
911 ACATTTTGAACCTTTGTCTATTTCTTGGAGAGATTTCTCTTCTCTATGTCGGCATGG 970
Qy |||||
1247 ATGCTTTGGACATTTGACAAAGTGGAGATCCGTGAGTGACACACCGGGAACATCGATCGAG 1306
Db |||||
971 ATGCTTTGGATATCGAAGAGTGGAAATTTGTTGGTGACAGGCTGGATTAATCAATTTCCG 1030
Qy |||||
1307 TGAGCTCAATCCTAATGGGTCTGTGATGTTGGAAGAGAGCGTTGCTCTTTCCGTTAT 1366
Db |||||
1031 TGAGTTCAATFACTGATGGGACTAATCTTGTCTGGGAGAGCTGCTTTGTTTTCCATTAT 1090
Qy |||||
1367 CGTTTCTATCTAATTTAGCCAAAGAAATCAAAGCGGAGAAATCAACTTTTAAATGCGAGG 1426
Db |||||
1091 CATTCATCAACTTAATGAGAAATCTCGGAGCAAAATTAACCTTTAGGCGAGCAAG 1150
Qy |||||
1427 TTGTGATTTGGTGTCTGTTCTCATGAGAGTGTCTGATCTATGCTCTTTGCATACAACA 1486
Db |||||
1151 TGATAATATGGTGGGAGGTTTGTATGAGAGCGGAGTGTCCATGGCACTGGCATATAA 1210
Qy |||||
1487 AGTTTACAAGGCGCGGCAACAGATGATGCGGGAATCAATCATGATCACGAGTACGA 1546
Db |||||
1211 AGTTCACTGTGGGGGACACACTCACTGCAGGACAAATGCAATAATGATTAACGAGCAGA 1270
Qy |||||
1547 TAACTGTCTGTCTTTTGTGACAGTGTGTTTGTATGCTGACCAACCACTCATAGCT 1606
Db |||||
1271 TAACCATGTTCTATTACGACAAATGATGTTGTTGTTGATGCTGACCAACCACTCATAGCT 1330
Qy |||||
1607 ACTATTACCGCACCAAGCCACCAAGAGCTGTTTATCTGATGACAAACCCCAAAAT 1666
Db |||||
1331 TCCTGTGTCACCAACAGGCAATTTGATGACAGTGTCTATCAGGCGCAATTAATCTC 1390
Qy |||||
1667 CCATACATATCCCTTTGTTGGAC---CAAGACTGTTTCATGAGCTTTAGGGAAACACA 1723
Db |||||
1391 CTCTAAGCCCCACTCCTAGGCGAGTCGAGAGGACTCTGAAGTTGATTTAAATGTTCCAG 1450
Qy |||||
1724 ATGTGCTCGGCTGACAGTATACGTGGCTTTCTTGACAGGCGCCACTCGAAGCGTGCAT 1783
Db |||||
1451 ATCTTCTCACCAACCAAGTTTGAGGATGCTACTTACCGCACCAAGTCAATAGTGCATC 1510
Qy |||||
1784 ACTATGGAGACAAATTTGATGACTCCTTCATGCGACCCGCTTTTGGAGGTCGTGGCTTTG 1843
Db |||||
1511 GGTACTGGCGCAAGTTTGAAGTGCATTCATGCGCCCTATGTTTGGTGGTGGGATTTG 1570
Qy |||||
1844 TACCTTTGTTCCAGGTTCTCCAACTGA 1871
Db |||||
1571 CTCCTCTGCCCCCTGGTTCTCCAAACGA 1598

RESULT 9

US-10-607-538-37

; Sequence 37, Application US/10607538
; Publication No. US20040107455A1
; GENERAL INFORMATION:
; APPLICANT: ROMMENS, CAIUS
; APPLICANT: YE, JINGSONG
; APPLICANT: HUMARA, JAIME M.
; APPLICANT: YAN, HUA
; APPLICANT: SWORDS, KATHY
; TITLE OF INVENTION: PRECISE BREEDING

Query Match 36.5%; Score 794.4; DB 17; Length 1621;
Best Local Similarity 69.2%; Pred. No. 3.3e-186;
Matches 1093; Conservative 0; Mismatches 486; Indels 3; Gaps 1;
Qy 287 TGTGGATCTCTAGTGTGAAACTGCTTTTCGTTATCGACATCTGATCAGGCTTCTCTGG 346
Db 11 TGCTGGCTTCTCTGTTTCCAAACTGGGCTCTTTGGGTACTTCAGATCATGCTTCTCTG 70
Qy 347 TTCGGTTGAATCTCTTTTGTGCACTTCTTTGTGCTGTGTATGTCTTGGTCACTTTTGG 406
Db 71 TATCCATCAACCTCTTTTGTGGCACTCTCTTTGTGCTGCATCATCATGCTCATCTCTGG 130
Qy 407 AAGAGATAGATGATGATGAAAGCAATCCATCAACCGCTTTGTTGATTGGGCTAGGCACTGGT 466
Db 131 AGAGAACCGCTGGTTTATGATGCTCAATTAATGCTCCCTCAATTTGTTGTGTACAGGAG 190
Qy 467 TTACCATTTTGTGATTTAGTAAAGAGAAAGCTTCGATCTTCTCGTCTTTAGTGAAGATC 526
Db 191 TGGTTATCTTGTCTCGTAAGTGGTGGAAAGAGCTCACACCTTCTGTTTTCAGTGAAGATC 250
Qy 527 TTTTCTTCATATCTTTTGGCAACCATTAATTAATCAAGCAGGGTTTCAAGTAAAAAGA 586
Db 251 TCTTTTTCATATATGATCTTCTCCCAATCATATTAATGACAGGTTTTCAGTAAAAAGA 310
Qy 587 AGCAGTTTTCGCAATTTCTGCTGACTATATGCTTTTGTGCTGTGTTGGACTATTTT 646
Db 311 AGCAATTTTGTAACTTCATTAATGATGTTGGAGCAATGGTACCCCTGGTCT 370
Qy 647 CTTGCAATCATATCTAGTGTAAACACAGTCTTTTAAAGAGTTGGCAATTTGAACCT 706
Db 371 CATGTGCCATTAATATCATTTAGTGGCCATTCAAACTTTCAAGAAGTTGGCAATTTTC 430
Qy 707 TTGACTTGGGTGATATCTTGTATTTGGTGCATATTTGCTGCAACAGATTCAGTATGTA 766
Db 431 TAGATATTGGGATTAATCTTGGCAATTTGGAGCAATATTTGCTGCCACAGATTCGCTCTGCA 490
Qy 767 CACTGAGGTTCTGAAATCAAGACGACACACCTTTGCTTTTACAGTCTTGTATTCGGAGAG 826
Db 491 CATTGAGGTTCTCATACAGGATGACACCCCTCTCTTACAGTCTTGTATTTGGAGAG 550
Qy 827 GTGTTGTGAATGATGCAACGCTGAGTTGTGGTCTTCAACGCGATTCAGAGCTTTGATCTCA 886
Db 551 GAGTTGTAATGATGCTACATCGTGGTGTCTTTCAATGCTATTCAAACCTTCGACCTTA 610
Qy 887 CTCACCTAAACCAAGAGCTGCTTTTTCATCTTCTTGGAAACTTCTTGTATTTGTTCTCC 946
Db 611 CGAGCATGAATCCCAAGTATAGCCCTCAGTTTCTTGGCAACTTCTTCTATCTCTCTCTG 670
Qy 947 TAAAGTACCTTGTCTGTGCTGCAACCGGCTGATAGTGGTATGTTATCAAGAACTAT 1006
Db 671 CTAGCACTTACTTGGAGCAGGAACCTGCTTCTTCTAGTCTTACATATCAAGAACTAT 730
Qy 1007 ACTTTGGAAGGCACTCAACTGACCGAGAGGTTGCCCCCTTATGATGCTTATGGCTATCTTT 1066
Db 731 ATTTTGGCAGGCACTCCACAGATCGTAGGTTGCCCCCTTATGATGCTATGCTCTGCTTAT 790


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Qy 1067 CTTATATGCTGTGAGCTTTTCGACTTGACGGTATCCTCACGTGTGTTTTCGTGTTA 1126
Db 791 CATATCTGCTGGCGAATTAATCTATTGAGTGGGATTCACCGTCTTTTCGTGTTA 850
Qy 1127 TTGTGATGTCCCAATTAACATGTCACATGGAATGTAACGGAGAGCTCAAGAAATCAACAAGC 1186
Db 851 TTGTAATGTCTCACTACACTTGGCACAAATGTGACCGAGAGTTCAGAGTCACTAAGGC 910
Qy 1187 ATACCTTTGCAACTTCTGCTTCTGCGAGAGATTAATTTCTGTGATGTTGGAATGG 1246
Db 911 ACATTTTGGCAACTTGTCAATTTCTTGAGAGACTTTCCTCTTCTCTATGTCGGATGG 970
Qy 1247 ATGCTTTGGCAATTCACAAAGTGGAGATCCGCTGAGTGAACACCGGGAAATCATGATCGAG 1306
Db 971 ATGCTTTGGATATCGAGAGTGGAAATTTGTGTGACAGGCTGGATTAATCAATTCG 1030
Qy 1307 TGAGCTCAATCCTAATGGTCTGTGATGATGTTGGAAGAGAGCGTTCGTTTCGTTAT 1366
Db 1031 TGAGTTCAATACTGATGGGACTAATCTTGCTTGGGAGAGCTGCTTTGTTTTCATAT 1030
Qy 1367 CGTTTCTATCTAATCTTACCAAGAGAAATCAAGCGAGAAATCAACTTTAAACATGCAGG 1426
Db 1091 CATTTCTATCACTAATGAAGAAATCCTCGAGAGAAATTAACCTTTAGGAGAGAG 1150
Qy 1427 TTGTGATTTGTTGCTGCTCATGAGAGTGTCTGTAATCTATGCTTCTGATCAACA 1486
Db 1151 TGATAATATGTTGGCAGGTTTGATGAGAGCGCAGTGTCCATGGCACTGGCATATAA 1210
Qy 1487 AGTTTACAGGCGGGGACACAGATGTACGGGGAATGCAATCATGATCAGAGTAGGA 1546
Db 1211 AGTTTCACTCGTGGGGGACACACTCAACTGCGAGGCAATGCAATTAATGATTAACGAGCA 1270
Qy 1547 TAACTGTCTGCTTTTGTAGCAGTGGTGTGTTGTTGCTGACCAAAACCACTCATAGCT 1606
Db 1271 TAACATTTGTTCTATTGACCAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 1330
Qy 1607 ACCTATTACCGCACAGAACCCACAGAGCATGTTATCTGATGACAAACCCCAAAAT 1666
Db 1331 TCCTGTGTCACACAGAGGCAATGAGTACAGTGTATCAGGCGCAATTAATCTCAAGT 1390
Qy 1667 CCATACATATCCCTTTGTTGAGC---CAAGACTGTTTCATTTGAGGCTTCAGGCAACCA 1723
Db 1391 CTCTAACAGCCCACTCTAGCGAGTCGAGAGGACTCTGAAGTTGATTTAAATGTTCCAG 1450
Qy 1724 ATGTGCTGCGCTGACAGTATAGTGTCTTTCGACAGCGCCCACTCGAACCGTGCAT 1783
Db 1451 ATCTTCTTCCACCAAGTTTGGAGTGTCTACTTACCGCAACAGTCTAATAGTGCATC 1510
Qy 1784 ACTACTGAGACAAATTTGATGACTCTTTTCATGCGGACCGCTTTTGGAGTCTGGCTTTG 1843
Db 1511 GGTACTGCGCAAGTTTGACGATGCATTCATGCGGCCCTATGTTTGGTGGTGGGATTTG 1570
Qy 1844 TACCTTTGTTCCAGTTCTCCAACTGA 1871
Db 1571 CTCCTCTGCGCCCTGGTTCTCCAAAGGA 1598

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RESULT 10

US-10-155-535-3

; Sequence 3, Application US/10155535

; Publication No. US20030046729A1

; GENERAL INFORMATION:

; APPLICANT: Blumwald, Eduardo

; APPLICANT: Apse, Maris

; TITLE OF INVENTION: INCREASING SALT TOLERANCE IN PLANTS BY

; FILE REFERENCE: 529152000720

; CURRENT APPLICATION NUMBER: US/10/155,535

; CURRENT FILING DATE: 2002-05-24

; PRIOR APPLICATION NUMBER: 09/271,584

; PRIOR FILING DATE: 1999-03-18

; PRIOR APPLICATION NUMBER: 60/078,474

; PRIOR FILING DATE: 1998-03-18

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; PRIOR APPLICATION NUMBER: 60/116,111
; PRIOR FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 2066
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; US-10-155-535-3

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Query Match 33.0%; Score 719; DB 14; Length 2066;

Best Local Similarity 66.0%; Pred. No. 1.9e-167;

Matches 1056; Conservative 0; Mismatches 540; Indels 3; Gaps 1;

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Qy 326 CATCTGATCAGCGTCTGTGCTTGCCTTGAATCTCTTTGTGCACTCTTTGTGCTTCTGTA 385
Db 50 CTTCCTGATCATCGTCTGCTCCATGAAATTTGTTGCTAGCTTGTGCTTGTGCTTGA 109
Qy 386 TTGTTCTTGTGTCATCTTTTGGAGAGATAGATGGATGAACGAATCCATCAACCCCTTGT 445
Db 110 TCGTGTGTTGTCATCTGCTTGAGGAGACTCGGTGGATGAACGAGTCAATCACTGCTCTTA 169
Qy 446 TGATTGGCTAGGCACTGCTTACCATTTTGTGTTAGTAAAGGAAAGCTCGCATC 505
Db 170 TCATTGTTCTGTTGCTGATCTGCTTATAAGTGGAGGCAAGCTCAAGGA 229
Qy 506 TTCTGCTCTTTAGTGAAGATCTTTTCTTCAATATATCTTTGCCACCCATTAATTTCAATG 565
Db 230 TTCTTGTGTTAGTGAAGATCTCTCTTTTATTAATCTTTCCACCAATTAATTTCAACG 289
Qy 566 CAGGTTTCAAGTAAAAAGAGCAGTCTTTCCCAATTTTCTGCTGACTTATTAATGCTTTTG 625
Db 290 CAGGTTTCAAGTAAAGAGCAATTTTTCGCAATTTTTCGCAATTTTCAATGATTTATTTG 349
Qy 626 GTGCTGTTGGACTATTTATTTCTTGCACAAATCATATCTTAGTGTAAACACAGTCTCTTTA 685
Db 350 GTGCTATGGAACCTCTCATTTTCAATTTGTTATCATCTATTTGGTGTCTAAACATCTTTTCG 409
Qy 686 AGAAGTTGGACATTTGGAACCTTTGACTTGGGTGATTAATCTTTGCTATTTGGTCCCATTTT 745
Db 410 AGAAATGAATATCGGTGATCTTACCATTCGGGACTATCTAGCCATTTGGACCAATTTCT 469
Qy 746 CTGCAAAGATTTAGTATGATCTGAGGTTCTGAATCAAGAGAGACACCTTTTGTCTTT 805
Db 470 CTGCTACAGACTCTGTTTGCACCTTGCAGTGTCTTAATCAAGAGAGACACCTCTCTTTGT 529
Qy 806 ACAGTCTGTATTCGGAGAGGCTGTTGTAATGATGCAACCTGAGTGTGCTTCTTCAAGC 865
Db 530 ACAGTCTGTCTTTGGAGAGGCTGATGAAAGTGCACATCGGTCTGCTCTTCAATG 589
Qy 866 CGATTACAGAGCTTTGATCTCACTCACCTAAACCCAGAGCTGCTTTTTCATCTTCTTGAA 925
Db 590 CAATTACAGAGATTCGACTCAAAATATCAATTCAGCCATAGCTTTTGGAGTTTGTCTGAA 649
Qy 926 ACTTCTGTATTTCTTCTAAGTACCTTGTGCTGCTGCAACCGGTCTGATAAGTG 985
Db 650 ACTTTTCTTCTTATCTTAAGCAGCAGCACTTGTGTTGTCAGCTGAGTTTGTCTGATG 709
Qy 986 CGTATGTTATCAAGAAGCTATACATTTTGAAGGCACTCAACTGACCGAGAGGTTGCCCTTTA 1045
Db 710 CTTTGTATCAAGAGCTCTATATAGGAAGGCACTCTACTGATGCTGAGTTGACATTA 769
Qy 1046 TGATGCTTATGCGGTATCTTTCTTTATATGCTTGTGCTGAGCTTTTTCGACTTGACGGGTATCC 1105
Db 770 TGATGCTTATGCTTACTTATCAATATATGTTGGCAGAGCTATTCACCTTGAGCTCTATCT 829
Qy 1106 TCAGTGTGTTTCTGTGGTATTTGTGATGCTCCATTACAGATGCAATGCAATGTAACGGA 1165
Db 830 TGACTGTGTTCTCTCGGGATTTGTTATGCTCTACTATACATGGAAGCAATGTTACAGATA 889
Qy 1166 GCTCAAGAAATAACAAGCATACCTTTTGCACATTTTCTCATTTTCTCGGAGACATTTTA 1225
Db 890 AATCAAGGTCACTACAAAACATATTTTGTGCAATGTCATTTCTAGCTGAGATTTTA 949

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1226	Qy	TTTTCTTGATGTTGGAAATGGATGCCCTTGGACATGTGACAAGTGGAGATACCGTGGATGACA	1285
950	Db	TCCTTCCTTTACGTTTGGAAATGGACGCTCTCGATATCGAGAAATGGGACGTTGTGTACGCAACA	1009
1286	Qy	CACCGGAAACATCGATCGCATCGAGTCAATCTCCATAATGGGTCTGGTTCATGGTTGGAAGAG	1345
1010	Db	GTCTCTGGTCAGTCGATTTGGAGTTAGTTCAATACHTCTTGGGCTATTCTTCTGGGTGCG	1069
1346	Qy	CAGGGTTGCTTTTCCGTTATCGTTTCTATCTAACTTAGCCCAAGAGAAATCAAGCGAGA	1405
1070	Db	CCGGTTTCGTTTCCACTTTCCTTTCTGTCCAAATTTAACAAAGTCTTCACCGGATGAGA	1129
1406	Qy	AAATCAACTTTAACAATCGAGTCTGTGATTTGGTGGTCTGTGCTCATCAGAGGTCGTCGTAT	1465
1130	Db	AAATAGACTTTAAGAAACAAGTAACCAATTTGGTGGCTGGTCTCATGCTGGTGGTCAGTGT	1189
1466	Qy	CTATGGCTCTTGCAACAACAAGTTTAAAGGGCGGGCAACACAGATGTACGCGGGAATG	1525
1190	Db	CAATGGCTCTGTCTTATAACACAGTTCAAACTTCAGGACACCAAGAGTTCTTTGGGAACG	1249
1526	Qy	CAATCATGATCACAGTAGCAGTAACCTCTGTCTTTTACACAGTGGTGTGGTATGC	1585
1250	Db	CTATCATGATCACAGTACCATCACTGTGTGTTCTTTTCAGTACTGTGGTGTGGATTGC	1309
1586	Qy	TGACCAAAACCACCTCATTAAGCTACCTATTACCGCACCCAGAACGCCACACAGAGCATGTTAT	1645
1310	Db	TAAACCAACCGTTAGTCAAAACATTTGCAGCGCTTCATCAAAACAGTCTCTCACGACCGCG	1369
1646	Qy	CTGATGACACACCCCAAAATCCATATATCCCTTTGTTGGACCAAGACTCGTTCTATTG	1705
1370	Db	TGCAGATCACACTAAGATCTCTTTTCCACGATCCGATCCCTCCATGAGCCGTTGCTCAGTA	1429
1706	Qy	AGCCTTCAGGGAACCACAATGTGCTCT--CGCGCTGCAGTATACGTGGCTCTTTGACAC	1762
1430	Db	CCCAAGCCAGTCAGATAACGACCTGNAACAAATGTTAGCTTCAGAAATGTTCTGGAAT	1489
1763	Qy	GGGCCATCGAAACCGTGCATTTACTCTGGAGACAATTTGATGACTCCTTCATGCAACCG	1822
1490	Db	CTCCGTCGAGGCCATTCATCATTTACTCTGGAGAAATTCGATAACGCGAGTTATGCGTCGCA	1549
1823	Qy	TCCTTTGGAGTCTGCGGCTTTGTACCCCTTGTTCAGGTTCTCCAACTGAGAGAAACCCCTC	1882
1550	Db	TATTTGGTGGCCGAGGCGTTTCCACAGTAGTTCCAGGTTCCACCATTGAGAAATGCTGTC	1609
1883	Qy	CTGATCTTACTAAGCTTTGAGGTTAAACGCTGGAGAAAAAG	1921
1610	Db	CGCAATGGAGTGAAGAAGTAGAAAAACAAGAAACAACAAACG	1648

RESULT 11	
US-10-409-701-22	
; Sequence 22, Application US/10409701	
; Publication No. US20030221224A1	
; GENERAL INFORMATION:	
; APPLICANT: Zinselmeier, Chris	
; APPLICANT: Helentjaris, Timothy G.	
; TITLE OF INVENTION: Enhanced Silk Exsersion Under Stress	
; FILE REFERENCE: 1421	
; CURRENT APPLICATION NUMBER: US/10/409,701	
; CURRENT FILING DATE: 2003-04-08	
; PRIOR APPLICATION NUMBER: US 60/370,796	
; PRIOR FILING DATE: 2002-04-08	
; NUMBER OF SEQ ID NOS: 26	
; SOFTWARE: FastSEQ for Windows Version 4.0	
; SEQ ID NO 22	
; LENGTH: 1638	
; TYPE: DNA	
; ORGANISM: Zea mays	
; FEATURE:	
; NAME/KEY: CDS	
; LOCATION: (1)...(1638)	
US-10-409-701-22	
978	GATAAGTGGGTATGTTATCAAGAAGCTATCTTTGGAAGGACACTCAACTGACCCGAGAGGT
699	GCTTAGTGCAATACATTATCAAGAAGCTCTGTTTTGCCAGACATTCAACTGATAGAGAAGT
1038	TGCCCTTATGATGCTTATGGCGTATCTTTCTATATATGCTTGCTGAGCTTTTCGACTTCAG
759	TTCTATCATGATACATCGGCATACCTTTTCATACATGATATCAATATGCTGTGGACCTGAG
1098	CGGTATCCTCACTGTGTTTTTCTGTGGTATGTGATGTCOCATACACATGCGCAATGT
819	TGGAATCTTACTGCTTCTCTGTGGAAATGTAATGTCATTTACACTTTGGCATAATGT
1158	AACGGAGAGCTCAAGAAATAACAACAAGCATACCTTTTGCAACTTTGTCTATCTTGGCGA
879	GACAGAAAGTCTAGGGTTACCAACAAGCATACCTTTTGCAACTTTATCATTTGTCAGA
1218	GACATTTATTTTCTTTGTATGTTGGAAATGGATGCGCTTGAGACATTTGACAATGGAGATCCGT
939	AAATTTTCCTCTCTATGTTGGATGATGCAATGGACATTTGAGAAGTGGAAATTAGC
1278	GAGTGACACACCGGGAAACATCGATGCGAGTGAGTCAATTCCTAATAGGCTGTGGTCATGGT
999	TAGTAGCAGTCCCTAAGAAACCAATTGCTTTTAAGTGGCAATTAATTTTGGGCTTGGTTATGGT

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QY 1338 TGGAGAGCAGCGTTCGTCCTTCGTTATCGTTTCTATCTAATGATGACCAAGAGATCA 1397
    |||||
Db 1059 TGGAGAGCGGCAATTTGTAATCCCTTGTCTGTTCTATCCAACTAAGCAAAAGGAGGC 1118
    |||||
QY 1398 AAGCGAAGAAATCAACTTTAACTATGACAGGTTGTAATTTGGTGTCTGGTCTCATGAGAGG 1457
    |||||
Db 1119 CCGTCCAAAGATCTCCCTTCAAGCAACAAGTAATCATATGTTGGGCTGGTCTCATGAGAGG 1178
    |||||
QY 1458 TGCCTATCTATGCTCTTCATACACAAAGTTTACAAAGGCCGGGCACACAGATGTAAG 1517
    |||||
Db 1179 AGCAGTGTCAATTTGCGCTTGCCTATAACAAGTTTACAGCATCTGGTTCACACTGAAGTGGC 1238
    |||||
QY 1518 CGGGAATGCAATCATATGATCAGGATCAGATAAAGTCTGTCTTTTATAGCACAGTGTGTT 1577
    |||||
Db 1239 AGTCAATGCTATCATGATCACCAGCAGATTAATTTGTTCTATTTCAGCAATGGTTT 1298
    |||||
QY 1578 TGGTATCTGACCAAACTCATATAGCTACCTATTAACGACCAAGGCCACCAAGATC 1637
    |||||
Db 1299 CGGCTGCTGACGAAGCGCTGCTCAGTCTCTCATCCAC-CAAGGACTGGACTGAACA 1357
    |||||
QY 1638 CATGTTATCTGATGACAAACCCCAAAATCCATACATATCCCTTTTGTGGACCAAGACTC 1697
    |||||
Db 1358 CGTGTCTGCTCTCAAGCAGTCTATGCTGACCCACTCTTACTAGCATGA-----T 1412
    |||||
QY 1698 GTTCATTGAGCCTTCAGGAAACCAAAATGTGCCTGGCCTGACAGTATACGTGGCTTCTT 1757
    |||||
Db 1413 GGGGTCTGACTTTGATGTAGGCGAGATCAACTCCCTCAATACAACTCCAGTTCTATCT 1472
    |||||
QY 1758 GACAGGCCCACTGAAACCGTGNATCTACTACTGAGACAAATTTGATGACTCTTCATGGC 1817
    |||||
Db 1473 CACCGGCCAGCTCGCTCCGTCATCGCTTTGGCGCAAGTTTGAAGATCGGTTTCATGGC 1532
    |||||
QY 1818 ACCCGTCTTTGGAGTGTGGCTTTGATACCTTTTTCAGGTTTCTCCAACTGAGAGAAA 1877
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Db 1533 CCGGTGTTGGGGGGCAGGTTTCGTCCTTTGCTGCTTGGCTTGGCTGGAGAGAG 1592
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RESULT 12

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; US-10-437-963-92579
; Sequence 92579, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 92579
; LENGTH: 1669
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)...(1669)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_91047C.1
; US-10-437-963-92579

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Query Match

25.1%; Score 546.2; DB 17; Length 1669;

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Best Local Similarity 61.2%; Pred. No. 1.2e-124;
Matches 979; Conservative 0; Mismatches 543; Indels 77; Gaps 3;

QY 289 TTGGATTCCTAGTGTGCAAACTGCCTTCGTTATCGACATCTGATCAGCTTCTGTGCTT 348
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Db 13 TTGGGAGCTCTCGTCTCTCAAAATCCGGCGGCTGTGGTGTGCGACTACGACTCGATCGTC 72
    |||||
QY 349 GCGTTGAATCTCTTTGTTGCACTTCTTTGCTTGTATTTCTTTGCTCATCTTTTGGAA 408
    |||||
Db 73 GCGATCAACATCTTGTGGCGCTGCTGTGAGCTGCAATTTGTATCGGGACCTGCTGAA 132
    |||||
QY 409 GAGAATAGATGGAATCAACCAATCCATCCCGCTTGTGATTTGGGTGAGGACCTGCTT 468
    |||||
Db 133 GGGAAACCGGTGGGTCAATGAATCCATCACCGCGCTTGTATGCGGCTGATCACTGGAGGT 192
    |||||
QY 469 ACCATTTTGTGATTAAGAAAGAAAGCTCCATCTCTCTCTTTTGTAGTGAAGATCTT 528
    |||||
Db 193 GTGATTCGTCTGTCAGTGTGGGAAAGACTCGACATCTTGTGTTTCAGTGGAGGACTC 252
    |||||
QY 529 TTCTTCATATATCTTTTCCACCCATATATTAATGCAGGGTTTCAAGTAAAGAAAGAAAG 588
    |||||
Db 253 TTCTTCATTTATTTGCTTCCACGATCATCTTTAATGCTGGTTCAGTAAAGAAAAA 312
    |||||
QY 589 CAGTTTTCGCAATTTGCTGACTATATATGCTTTTGGTGTCTGTTGGGACTATATTTCT 648
    |||||
Db 313 CAATTCCTCCGCAATTTTATGACAAATTTATTTATTTTGGTCTGTGGGACATTCATATCC 372
    |||||
QY 649 TGCACATCATATCTCTAGGTGTAAACACATCTTTTAAAGAAGTTGGACATTTGAAACCTT 708
    |||||
Db 373 TTTGTGATAATCTCTCTA----- 390
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QY 709 GACTTGGGTGATTTATCTTGTCTATTTGTTGCCATATTTGCTGCAACAGATTCAGTATGTA 768
    |||||
Db 391 -----GCAATTTGGGCTATCTTCTCAGCAACAGATTCGTTTGCA 432
    |||||
QY 769 CTCAGGTTCTGAATCAAGACGAGACACCTTTGCTTTTACAGTCTTGTATTTGGGAGGGT 828
    |||||
Db 433 TTACAGGTGCTTAACCAAGACGAAACACCCCTACTCTATAGTCTGTTTGGTGAAGGG 492
    |||||
QY 829 GTTGTGAATGATCAAGTCAAGTGTGCTTCTCAACGCGATTCAGAGCTTGTATCTCACT 888
    |||||
Db 493 GTTGTCAATGATGCTATCTGTTGCTCTTTAATGCAATGAAGACATTTGATTTGCT 552
    |||||
QY 889 CACCTAAACCAAGAGCTGCTTTTCTATCTTTTGGAACTTCTTGTATTTGTTTCTCTTA 948
    |||||
Db 553 AATTTGATAGCTTGTCTTACTAGGCTTCAAGGAAATTTTCTTACCTATCTTCACT 612
    |||||
QY 949 AGTACCTGCTTGGTGTGCAACCGGTCTGATTAAGTGGCTATGTTATCAAGAGCTATAC 1008
    |||||
Db 613 AGTACCTTCTTGGAGTAGTGTGCTGGGTGCTTAGTGGCTATATTAAGAAACTATGT 672
    |||||
QY 1009 TTTGGAGGCACCTCACTGACCGAGAGGTTGCCCTTATGATGCTTATGGCGTATCTTCT 1068
    |||||
Db 673 TTTGCCAGACATCACTGACAGAAAGTTGCTATCAATGATCTATGCGGTACCTTCA 732
    |||||
QY 1069 TATATGCTGCTGAGCTTTTTCGACTTTGAGCGGTATCTCTACTGTGTTTTTCTGTGTTAT 1128
    |||||
Db 733 TATATGCTGCTGAGTGTGCTTAGTCTGAGTGGCATTTCTCACTGTGTTCTTCTCTGGAATA 792
    |||||
QY 1129 GTGATGTCCCATTCACATGCGCAATGTAAACGAGAGCTCAAGATTAACAAACAT 1188
    |||||
Db 793 GTAATGTCAATTTACACTTGGCATATGTGACAGAAAGCTCTAGGATTAACCAAGCAC 852
    |||||
QY 1189 ACCTTTGCACCTTTTGTCTTCTTTGGGAGACATTTATTTTCTTGTATGTTGGAATGGAT 1248
    |||||
Db 853 ACTTTTGTACTTTTATCTTCTTCTTCTGAAATTTTCTTATTTCTTATTTGGATGAT 912
    |||||
QY 1249 GCCTTGGACATTCAGAGTGGAGATCCGTGAGTGAACACACCGGAAACATCGATCGAGTG 1308
    |||||
Db 913 GCACGTGACATTTGAAAAATGAAATTTAGCTAGCAGCAGTCTCTAAAAACCAATTTGCTTTA 972
    |||||
QY 1309 AGCTCAATCTAATGGTCTGCTGTCATGTTGGAGAGCAGGTTCTTCTTCGTTATCG 1368
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Db	973	AGTGAACATATATTGGGGCTTGCTTATGTGTGAAGAGACAGCAATTTGTATTCCTTTGTCT	1032
Qy	1369	TTTCTATCTAACTTAGCCAAAGAAGAAATCAAGCGAGAAAAATCAACTTTAAACATGACAGGTT	1428
Db	1033	TTCTATCCAAATCTAAGTTAAAAAGAGACACGCCCAAGATCTCTTCAAGCAGCAAGTA	1092
Qy	1429	GTGATTTGGTGGTCTGGTCTCATGAGAGGTGCTGTATCTATATGCTTTCGATACACAAG	1488
Db	1093	ATCATATGGTGGCAGGTCTCATGAGAGAGCAGTATCAATAGCACTTGCCCTATCACAAAG	1152
Qy	1489	TTTCAAGGGCGGGCACACAGATGTCAGCGGGAAATCAATCATGATCAGCAGTAGGATA	1548
Db	1153	TTCAACCGCATCTGGTCACTGAATTGGCAATCAATGCTATCATGATCACCAGCACAGTC	1212
Qy	1549	ACTGTCTCTTTTTAGCACAG--TGGTGTTTGGTATGCTGACCAAAACCACTCAAAAGCT	1606
Db	1213	ATTGTTGTTCTGTTACACAGAGCTGGTTTTTGGTTTTTTTACCAAGGCTCTCTCAATC	1272
Qy	1607	ACCTATTACCGCACAGAACGCCACACAGAGCATGTTATCTGATGACAAACACCCCAAAT	1666
Db	1273	TCCTCATCCCCACCAAGGCTGCATATAGCAGCTGATCTCTCAAGCCAGTCAATCATAGACC	1332
Qy	1667	GCATACATATCCCTTTGTTGACACAGACTGGTTCATTGAGCCTTCAGGGAACCAAGTC	1726
Db	1333	CACCTCTTGGAAAGCCTGCTGGGGTCTGACTTTGATGTAGGCCAGCCCTCCCTCAGAACA	1392
Qy	1727	TGCCCTGGCCCTGACAGTATACGTGGCTTCTTGACACGGCCCACTGAAACCGTGATTACT	1786
Db	1393	ACCTTCAGCTT-----CTTCTCACCATTCAGACTCGCTCCGCTCATCGCG	1437
Qy	1787	ACTGGAGACAATTTGATGACTCTTTCATGCGACCCGCTCTTTGGAGGTCGTGGCTTTGTAC	1846
Db	1438	TGTGGCGCAAGTTTGATGATAGATATCATGCGCCCGATGTTCGGGGGCGAGGCTTCGTTC	1497
Qy	1847	CCTTTGTTCCAGGTTCTCCAACTGAGAGAAACCCCTCCTG	1885
Db	1498	CTTTTCGTGCTCTGGTTTCGCCAGTGGAGCGGAGCATCCATG	1536

RESULT 13

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US-10-425-114-21998
; Sequence 21998, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 21998
; LENGTH: 1014
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3356-014-C1_FLI
US-10-425-114-21998

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Query Match	21.5%	Score 468.2	DB 16	Length 1014
Best Local Similarity	67.0%	Pred. No. 2.1e-105		
Matches 681	Conservative 0	Mismatches 333	Indels 3	Gaps 1
Qy	811	CTTGATTCGAGAGGTTGTGAAATGATGCAACGTCAGTTGTGCTTCAACGCGATT	870	
Db	1	CTCGTGTTCGTTGAGGAGTCGTAACGATGCCACGTCGTGTGTGCTCTTCAACGCATC	60	
Qy	871	CAGAGCTTTGATCTCTCACTCACTAAACACGAACTGTTTTCATCTTTTGAAATCTC	930	

RESULT 14
US-09-770-423-408
; Sequence 408, Application US/09770423
; Publication No. US2002004090A1
; GENERAL INFORMATION:
; APPLICANT: Gorlach, Jörn
; APPLICANT: An, Yong-Qiang
; APPLICANT: Hamilton, Carol M.
; APPLICANT: Price, Jennifer L.

; APPLICANT: Raines, Tracy M.
; APPLICANT: Yu, Yang
; APPLICANT: Rameaka, Joshua G.
; APPLICANT: Page, Amy
; APPLICANT: Matthew, Abraham V.
; APPLICANT: Ledford, Brooke L.
; APPLICANT: Woessner, Jeffrey P.
; APPLICANT: Haas, William David
; APPLICANT: Garcia, Carlos A.
; APPLICANT: Krickler, Maja
; APPLICANT: Slader, Ted
; APPLICANT: Davis, Keith R.
; APPLICANT: Allen, Keith
; APPLICANT: Hoffman, Neil
; APPLICANT: Hurbán, Patrick
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; FILE REFERENCE: 2028 (PARA-017PRV)
; CURRENT APPLICATION NUMBER: US/09/770,423
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,512
; PRIOR FILING DATE: 2000-01-27
; NUMBER OF SEQ ID NOS: 999
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 408
; LENGTH: 418
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-770-423-408

Query Match 19.2%; Score 418; DB 9; Length 418;
Best Local Similarity 100.0%; Pred. No. 3.6e-93;
Matches 418; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1390 AAGAAATCAAGCGAAGAAATCAACTTAAATGAGGTGTGATTTGGTGTCTGTCTC 1449
Db 1 AAGAAATCAAGCGAAGAAATCAACTTAAATGAGGTGTGATTTGGTGTCTGTCTC 60

Qy 1450 ATGAGAGGTGTGTATCTATGCTCTTGCATACAAAGTTTACAGGCGGGCACACA 1509
Db 61 ATGAGAGGTGTGTATCTATGCTCTTGCATACAAAGTTTACAGGCGGGCACACA 120

Qy 1510 GATGTACGCGGAATGCAATCATGATCAGAGTACGATACTGTCTCTTTTAGCACA 1569
Db 121 GATGTACGCGGAATGCAATCATGATCAGAGTACGATACTGTCTCTTTTAGCACA 180

Qy 1570 GTGTGTTTGTATGCTGACCAACCACTGTATGAGTACCTATTACCGCACCAAGGCC 1629
Db 181 GTGTGTTTGTATGCTGACCAACCACTGTATGAGTACCTATTACCGCACCAAGGCC 240

Qy 1630 ACCACGAGCATGTTATCTGATGACCAACCCCAAAATCCATACATATCCCTTCTGTGAC 1689
Db 241 ACCACGAGCATGTTATCTGATGACCAACCCCAAAATCCATACATATCCCTTCTGTGAC 300

Qy 1690 CAAGACTCGTTTATGAGCCTTCAGGGAACCAATGTGCTCGGCCCTGACAGTATAGT 1749
Db 301 CAAGACTCGTTTATGAGCCTTCAGGGAACCAATGTGCTCGGCCCTGACAGTATAGT 360

Qy 1750 GGCTTCTTGACCGGCCCATCGAACCGTGTATCTACTGTGAGACAAATTTGATGACT 1807
Db 361 GGCTTCTTGACCGGCCCATCGAACCGTGTATCTACTGTGAGACAAATTTGATGACT 418

RESULT 15

US-10-437-963-46695
; Sequence 46695, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei

; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Bing
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 46695
; LENGTH: 1896
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_49537C.1
US-10-437-963-46695

Query Match 19.1%; Score 415.2; DB 17; Length 1896;
Best Local Similarity 62.9%; Pred. No. 4.1e-92;
Matches 673; Conservative 0; Mismatches 373; Indels 24; Gaps 1;

Qy 336 CGCTTCTGTGTTGCGTTGAATCTCTTTGTTGCATCTTCTTGCTGTGCTGTATTTGTTCTTGG 395
Db 66 CGGCACGGTGGTGTCCATCTGCGTGTTCACGGGGTGTGTGCTGTGCTGTGCTGTGCTGCGGG 125

Qy 396 TCATCTTTTGAAGAGAAATAGATGGATGAACGAATCCATCACCGCCTTGTGTGATTGGGCT 455
Db 126 CCACCTCTCGAGGAGAACAGTGGTCAAGAGTCCATCACCGCCTCTCTCATCGTTG 185

Qy 456 AGGCATGGTGTACCAATTTTGTGATTAGTAAAGGAAAGTCCGCAATCTTCTGCTT 515
Db 186 TGTGTAGTGTCTATCATATTTCTGTGAGTGAAGCAAGAACTCGCGAATCTCTGAGTT 245

Qy 516 TAGTGAAGATCTTTTCTTCATATATCTTTTGCACCCATATATATTCATGAGGTTTCA 575
Db 246 CGACGAGCAGTCTTCTTCATCTATGACTTCTCCCATATCTTCAATGAGGCTTCCA 305

Qy 576 AGTAAAAAGAAAGCAGTTTTTCCGCAATTTTCTGCACTATATGCTTTTGTGCTGTGTTGG 635
Db 306 GGTCAGAGAGAGAGTCTTTTCAATTTCTCACCATAATGTCTTTTGGATATTCGG 365

Qy 636 GACTATTTTCTTTCGCAATCATCTCTAGGTGTAAACAGTCTTTTAAGAAGTTGGA 695
Db 366 CGTGTTCATCTCAGTTGCGATAGTTTCAACAGGTTGTCTACTGGCTCTTCCCAAAAGTTG 425

Qy 696 CATTTGGAACCTTTGACCTTGGTGATTATCT-----TGTAT 731
Db 426 TTTTGGGGACCTTGGCGGGTAGATATCTAGATCTAACTTTTCAACTACAGCTTT 485

Qy 732 TGTGTCCATATTTGCTCAACAGATTCAGTATGTACACTGCAGGTTCTGTAATCAAGACGA 791
Db 486 GGGAGCAATATTTCTCAACAGATCTGTCTGCACATTCAGGTCTACGCCAGGATGA 545

Qy 792 GACACCTTTGCTTTTACAGTCTTTGATTCGGAGAGGGTGTGTAATGATGCAACGTGAGT 851
Db 546 GACACCTTAGATTTTACAGTTTGGTGTGGGAGAGAGTGTCAATGATGCAACCTCAGT 605

Qy 852 TGTGCTCTTCAACCGGATTCAGAGCTTTGATCTCAGTCACTACCTAACCAACGAGCTGTTT 911
Db 606 TGTGCTTTTCAACCGCTATAAAGATCTGGATATCAGTCACTCAAGCGGGGTGCGCT 665

Qy 912 TCATCTTCTTGGAAACCTTCTTGTATTTGTTTCTCCTAAGTACCTTGTGTTGTTGCTGCAAC 971
Db 666 AAAGTCATTTACATTTTCTTACCTGTTCTTCACTAGCAGTATGCTTGGAGTTACAAT 725

Qy 972 CGGTCTGATAGTGGTATGTTATCAAGAGCTATATCTTTGGAGGAGCACTCACTGACCG 1031
Db 726 TGGCTATCAACTGCTTATGCTCTCAAGGCTCTGATTTTGGTAGGCACTCCACTGATAG 785

Qy 1032 AGAGGTTGCCCTTATGATGCTTATGGGCTATCTTTCTTATATGCTTGTGAGGCTTTTGA 1091
Db 786 GGAAGTAGCTTTGATGGCTCTCATGGCTTATTTGTCATATATGCTGGCAGAGTTTCTTGA 845

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OM nucleic - nucleic search, using sw model

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	64.4	3.0	1688	4	US-09-800-729-57
4	53.8	2.5	1291	4	US-09-524-1010-5
5	53.8	2.5	2007	3	US-08-747-221B-36
6	53.8	2.5	2007	3	US-08-747-221B-38
7	53.8	2.5	2007	3	US-09-005-051-36
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16	48.8	2.2	2643	3	US-09-100-391-9
17	48.8	2.2	2643	4	US-09-616-614-9
18	48.4	2.2	684	4	US-09-248-796A-6653
19	48.4	2.2	1664976	4	US-08-916-421B-1
20	48.4	2.2	1664976	4	US-09-692-570-1
21	47.8	2.2	832	4	US-09-621-976-2813
22	47.6	2.2	915	4	US-09-601-198-7
23	46.6	2.1	5852	1	US-07-867-106-2
24	46.4	2.1	640681	4	US-09-790-388-1
25	46	2.1	505	4	US-09-621-976-15639
26	46	2.1	3138	1	US-07-867-106-4
27	45.4	2.1	1466	3	US-08-984-919A-10

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c	29	45.4	2.1	1472	3	US-08-781-420-10	Sequence 10, Appl
c	30	45.4	2.1	1472	3	US-08-781-420-12	Sequence 12, Appl
c	31	45.4	2.1	1472	3	US-08-874-102-10	Sequence 10, Appl
c	32	45.4	2.1	1472	3	US-08-874-102-12	Sequence 12, Appl
c	33	45.4	2.1	1472	4	US-09-006-595A-10	Sequence 10, Appl
c	34	45.4	2.1	1472	4	US-09-006-595A-12	Sequence 12, Appl
c	35	45.4	2.1	1875	3	US-08-984-919A-46	Sequence 46, Appl
c	36	45.4	2.1	1875	3	US-08-984-919A-48	Sequence 48, Appl
c	37	45.4	2.1	1881	3	US-08-874-102-46	Sequence 48, Appl
c	38	45.4	2.1	1881	3	US-08-874-102-48	Sequence 48, Appl
c	39	45.4	2.1	2080	4	US-10-003-392-1	Sequence 1, Appl
c	40	45.4	2.1	4055	4	US-09-620-312D-706	Sequence 706, App
c	41	44.6	2.0	1313	4	US-09-149-476-112	Sequence 112, App
c	42	44.6	2.0	2519	4	US-09-380-287A-9	Sequence 9, Appl
c	43	44.4	2.0	1368	3	US-08-874-563-5	Sequence 5, Appl
c	44	44.4	2.0	1368	3	US-08-577-483-14	Sequence 14, Appl
c	45	44.4	2.0	4253	3	US-08-577-483-7	Sequence 7, Appl

ALIGNMENTS

RESULT 1

US-09-800-729-22
; Sequence 22, Application US/09800729
; Patent No. 8605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: PZ044P1
; CURRENT APPLICATION NUMBER: US/09/800, 729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 22
; LENGTH: 1581
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (112)
; OTHER INFORMATION: n equals a.t.g, or c
; NAME/KEY: SITE
; LOCATION: (959)
; OTHER INFORMATION: n equals a.t.g, or c
; NAME/KEY: SITE
; LOCATION: (1565)
; OTHER INFORMATION: n equals a.t.g, or c
US-09-800-729-22

Query Match 4.2%; Score 91.2; DB 4; Length 1581;
Best Local Similarity 47.8%; Pred. No. 2.2e-13;
Matches 369; Conservative 6; Mismatches 370; Indels 30; Gaps 3;

QY	522	AGATCTTTCTTCATATATCTTTTCCGCAATTCGTGACTATATGCTTTTGGTGCTGTTGGGACTAT	641
Db	493	GAAGACACTTTTTCAGAAATCTTGGATCTATACCTGCTATGCTTCTTGGGACTGC	552
QY	582	AAAGACAGTTTTTCGCAATTCGTGACTATATGCTTTTGGTGCTGTTGGGACTAT	641
Db	493	GAAGACACTTTTTCAGAAATCTTGGATCTATACCTGCTATGCTTCTTGGGACTGC	552
QY	642	TATTTCTTCACATCATATCTCTAGTGTAAACAGTCTTTAAGAGTTGGACAT--	699
Db	553	TGKTTCATCTTTCATTTTGGAAATCTCATGTATGTTGGTGAAGCTCATGAAGATTAT	612
QY	700	-----GGAACTTTGACTTGGTGATATCTGCTATTGCTATTGCTGCTATTGCT	746

Db 613 GGGACAGCTCTCAGATAAATTTTACTACACAGAWTGKCTCTTTTGGAGCAATCATCTC 672
Qy 747 TGGACAGATTCAGATGACACAGCTGAGTTCTGAATCAAGACAGACACCTTTG---CT 803
Db 673 TGGCACTGACCCAGTACTGCTGGCGATATTTAATGAATGTGATGACAGAGCTGATCT 732
Qy 804 TTACAGTCTTATTTGGAGAGGGTGTGTGAATGATGCAACGTCAGTTGTGGCTCTCAA 863
Db 733 TTACGCACTCTTTTGGAGAGAGGCTCTAAATGAAGCTGTTCGCACTGACCTGKCTC 792
Qy 864 CGGCAATCAGAGCTTTGATCTCACTCACTAAACACAGAACTGCTTTTCAATCTCTGG 923
Db 793 GTCTATTGTTGCTTACACAGCCAGCGGACTGAACACTCACGCCCTTTGATGCTGCTG 852
Qy 924 AAACCTTCTGATTTGTTCTTCAAGTACCTTCTGCTGGTCTGCAACGGTCTGATAAG 983
Db 853 TTTTAAGTCAGTTGGCACTTTCTAGGTATATTTAGTGGCTCTTTTACCATGGAGCTGT 912
Qy 984 TGCCTATGTTA-----TCAAGAAGCTATACCTTTTGAAGGCACTCAACTGACCG 1031
Db 913 GACTGGTGTGACTGCTCVAGTCACTAAGTTTACCAAAKCGACNGCTTCCGCCCTGT 972
Qy 1032 AGAGTTGCCCTTATGATGCTTATGAGCTATCTTTCTTATATGCTTGTGAGCTTTTCCA 1091
Db 973 GGAGACGGCGTGTCTTCTCATGCTCTGAGCAGCTTTCTCTTGGCAGAAGCTGCGG 1032
Qy 1092 CTTGAGCGGTATCTCACTGCTGTTTCTGCTGGTATGTGATGCTCCCATACATGCA 1151
Db 1033 ATTACAGGTGTGAGTGTGCTCTTTCTGTGGAATCACAAAGTCAATACCTACAA 1092
Qy 1152 CAATGTACAGGAGCTCAAGAATAACAAAGCATACCTTTGCAACTTTTGTCACTTCT 1211
Db 1093 CAATCTGTCGGTGAATCAAGAAGTCGAACCAAGCAGCTCTTTGAGGTGTACATTTCT 1152
Qy 1212 TCGGAGACATTTATTTCTTGTATGTTGGAATGATGCTTGGACATGCAAG 1266
Db 1153 GGCAGAGAATTCATCTTCTCTACATGGCGCTGGCACTGTTTACCTTCCAGAAG 1207

RESULT 2

US-09-800-729-58
; Sequence 58, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 58
; LENGTH: 1354
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-800-729-58

Query Match 3.0%; Score 64.4; DB 4; Length 1354;
Best Local Similarity 54.7%; Pred. No. 1.3e-06;
Matches 128; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

Qy 1033 GAGGTGCGCTTATGATGCTTATGCGGTATCTTTCTTATATGCTTGTGAGCTTTTCGAC 1092
Db 18 GAGACGGCGCTGTTCTTCTCATGTCCTGGAGCAGCTTTCTCTGGCAGAGCTTGGCGA 77
Qy 1093 TTGACGGGTATCCTCACTGCTGTTTCTGTGATGATGCTGCCATTTACATGCGAC 1152
Db 78 TTACAGGTGTGTAGTGTCTCTTCTGTGGAATCACAAAGCTCAATACCTACCAAC 137

Qy 1153 AATGTACGGAGAGCTCAAGAATAACAAAGCATACCTTTGCAACTTTGTCTATTCTT 1212
Db 138 AATCTGTCGTGGAATCAAGAAGTCGAACCAAGCAGCTCTTTGAGGTGTACATTTCTG 197
Qy 1213 GCGGAGACATTTATTTCTTGTATGTTGGAATGATGCTTGGACATGCAAG 1266
Db 198 GCAGAGAATCTCATCTTCTCTACATGGCGCTGGCACTGTTTACCTTCCAGAAG 251

RESULT 3

US-09-800-729-57
; Sequence 57, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 57
; LENGTH: 1688
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (21)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (69)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (99)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-800-729-57

Query Match 3.0%; Score 54.4; DB 4; Length 1688;
Best Local Similarity 54.7%; Pred. No. 1.4e-06;
Matches 128; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

Qy 1033 GAGGTGCGCTTATGATGCTTATGCGGTATCTTTCTTATATGCTTGTGAGCTTTTCGAC 1092
Db 345 GAGACGGCGCTGTTCTTCTCATGTCCTGGAGCAGCTTCTTGGCAGAGCTGCGA 404
Qy 1093 TTGACGGGTATCCTCACTGCTTTTCTGTGATGATGCTCCCATTTACATGCGAC 1152
Db 405 TTACAGGTGTGTAGCTGTCTTTCTGTGMAATCACAAAGCTCAATACACCTACAAC 464
Qy 1153 AATGTACGGAGAGCTCAAGAATAACAAAGCATACCTTTGCAACTTTGTCTATTCTT 1212
Db 465 AATCTGTCGTGGAATCAAGAAGTCGAACCAAGCAGCTCTTTGAGGTGTACATTTCTG 524
Qy 1213 GCGGAGACATTTATTTCTTGTATGTTGGAATGATGCTTGGACATGCAAG 1266
Db 525 GCAGAGAATCTCATCTTCTCTACATGGCGCTGGCACTGTTTACCTTCCAGAAG 578

RESULT 4

US-09-524-101D-5
; Sequence 5, Application US/09524101D
; Patent No. 6762291
; GENERAL INFORMATION:
; APPLICANT: EXELIXIS, INC.
; TITLE OF INVENTION: INSECT P53 TUMOR SUPPRESSOR GENES AND PROTEINS
; FILE REFERENCE: EX00015C FIRST AMENDMENT
; CURRENT APPLICATION NUMBER: US/09/524,101D
; CURRENT FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: US 09/268,969

Qy	2014	CCTAACGTTTTGAGACGAGAAACGAAACATGGCAACTTTGCAAGTGTTTGATTGATGATAT	2073
Db	173	CGCTCTCTTTGAGAACTGAACATAAAATGTGATTAATGGACGCCACATTATTATATTT	114
Qy	2074	GTAATTATATTCATATTTGTTTTCGTTCTGAACACAACTACACATTTGTTTATGTTTGAA	2133
Db	113	GATATATATACCATCTTTTGTAACATTTGCTTTTATTTTTTCATTTTTTTTTATTTC	54
Qy	2134	TTTGGTTTTTGCCTTCGAAAAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	2178
Db	53	AAATATATTTGTTTTTTTTTATAAAAAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9
RESULT 7			
US-09-005-051-36			
; Sequence 36, Application US/09005051			
; Patent No. 6291222			
; GENERAL INFORMATION:			
; APPLICANT: Silver, Gary W.			
; APPLICANT: Wisniewski, Nancy			
; TITLE OF INVENTION: No. 6291222al Carboxylesterase Nucleic Acid			
; TITLE OF INVENTION: Molecules, Proteins and Uses Thereof			
; NUMBER OF SEQUENCES: 66			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: Carol Talkington Verser, Ph.D.			
; ADDRESSEE: Heska Corporation			
; STREET: 1925 Sharp Point Drive			
; CITY: Fort Collins			
; STATE: Colorado			
; COUNTRY: USA			
; ZIP: 80525			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Floppy disk			
; COMPUTER: IBM PC compatible			
; OPERATING SYSTEM: Windows 95			
; SOFTWARE: WordPerfect for Windows, Version 7.0			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: US/09/005,051			
; FILING DATE:			
; CLASSIFICATION:			
; PRIOR APPLICATION DATA:			
; APPLICATION NUMBER: 08/747,221			
; FILING DATE: NO. 6291222ember 12, 1996			
; ATTORNEY/AGENT INFORMATION:			
; NAME: Verser, Carol Talkington			
; REGISTRATION NUMBER: 37,459			
; REFERENCE/DOCKET NUMBER: PC-1			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: 970/493-7272			
; TELEFAX: 970/484-9505			
; INFORMATION FOR SEQ ID NO: 36:			
; SEQUENCE CHARACTERISTICS:			
; LENGTH: 2007 nucleotides			
; TYPE: nucleic acid			
; STRANDEDNESS: single			
; TOPOLOGY: linear			
; MOLECULE TYPE: cdna			
; FEATURE:			
; NAME/KEY: CDS			
; LOCATION: 11..1594			
US-09-005-051-36			
Query Match 2.5%; Score 53.8; DB 3; Length 2007;			
Best local Similarity 52.4%; Pred. No. 0.00074;			
Matches 118; Conservative 0; Mismatches 107; Indels 0; Gaps 0;			
Qy	1954	AAATATGCTTTGTGTAAATATATCCATTTGTAATATTTGTTGAGACAGAAATCTGT	2013
Db	1775	AACAAATCTGTTTACTGATTTGCGCAATTCACAGATGGTGACTGTGCTTAATTTGT	1834
Qy	2014	CCTAACGTTTTGAGACGAGAAAGCAAAACATGGCAACTTTGAACTGTTTGATTGATGATAT	2073
Db	1835	CGCTCTCTTTGAGAACTGAACATAAAATGTGATTAATGGACGCCACATTATTATATTT	1894

Db
1265 TGGAAAAA
1296

RESULT 15

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RES001_13
US-09-616-614-11
; Sequence 11, Application US/09616614
; Patent No. 6495339
; GENERAL INFORMATION:
; APPLICANT: Korneluk, Robert G.
; APPLICANT: Tamai, Katsuyuki
; APPLICANT: Liston, Peter
; APPLICANT: MacKenzie, Alexander E.
; TITLE OF INVENTION: XAF GENES AND POLYPEPTIDES: METHODS AND
; TITLE OF INVENTION: REAGENTS FOR MODULATING APOPTOSIS
; FILE REFERENCE: 07891/010004
; CURRENT APPLICATION NUMBER: US/09/616,614
; CURRENT FILING DATE: 2000-07-14
; EARLIER APPLICATION NUMBER: 09/100,391
; EARLIER FILING DATE: 1998-06-19
; EARLIER APPLICATION NUMBER: 60/052,402
; EARLIER FILING DATE: 1997-07-14
; EARLIER APPLICATION NUMBER: 60/054,491
; EARLIER FILING DATE: 1997-08-01
; EARLIER APPLICATION NUMBER: 60/056,339
; EARLIER FILING DATE: 1997-08-18
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1302
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-616-614-11

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Query Match	2.2%	Score 48.8;	DB 4;	Length 1302;
Best Local Similarity	70.7%;	Pred. No. 0.011;		
Matches 65;	Conservative	0;	Mismatches 27;	Indels
				Gaps 0;

Qy	2087	TATTTGTTTGGTTGTAACACAAACTACACATTTGTTTGAATTTGTTTTGCT	2146
D _b	1205	TTTTTATTTTACTGGTTATAAATAATTTAACTTCCTGTAAAGAAATAAAGTTGACT	1264

Qy 2147 TCGAAAAAAAAAAAAAAAAAAAAA 2178
| | | | | | | | | | | | | | | |
Dd 1265 TGGAATAAAAAAAAAAAAAAAAAAAA 1296

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Search completed: October 21, 2004, 02:02:51
Job time : 206 secs

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